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Rubberized asphalt gains traction

by MIKE BRESLIN

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Blending crumb rubber made from scrap tires into asphalt formulations to pave roads is a winning strategy – one being adopted by more and more state departments of transportation (DOTs). Rubber modified asphalt (RMA) is a closed-loop recycle process that takes scrap tires off the road, keeps them out of landfills, and makes for lower cost, better quality roads.

Earlier this year, Florida's DOT (FDOT) became the latest state to create new specifications that ease the way for more paving using rubberized asphalt, thereby further opening competition with conventional polymer-asphalt formulations.

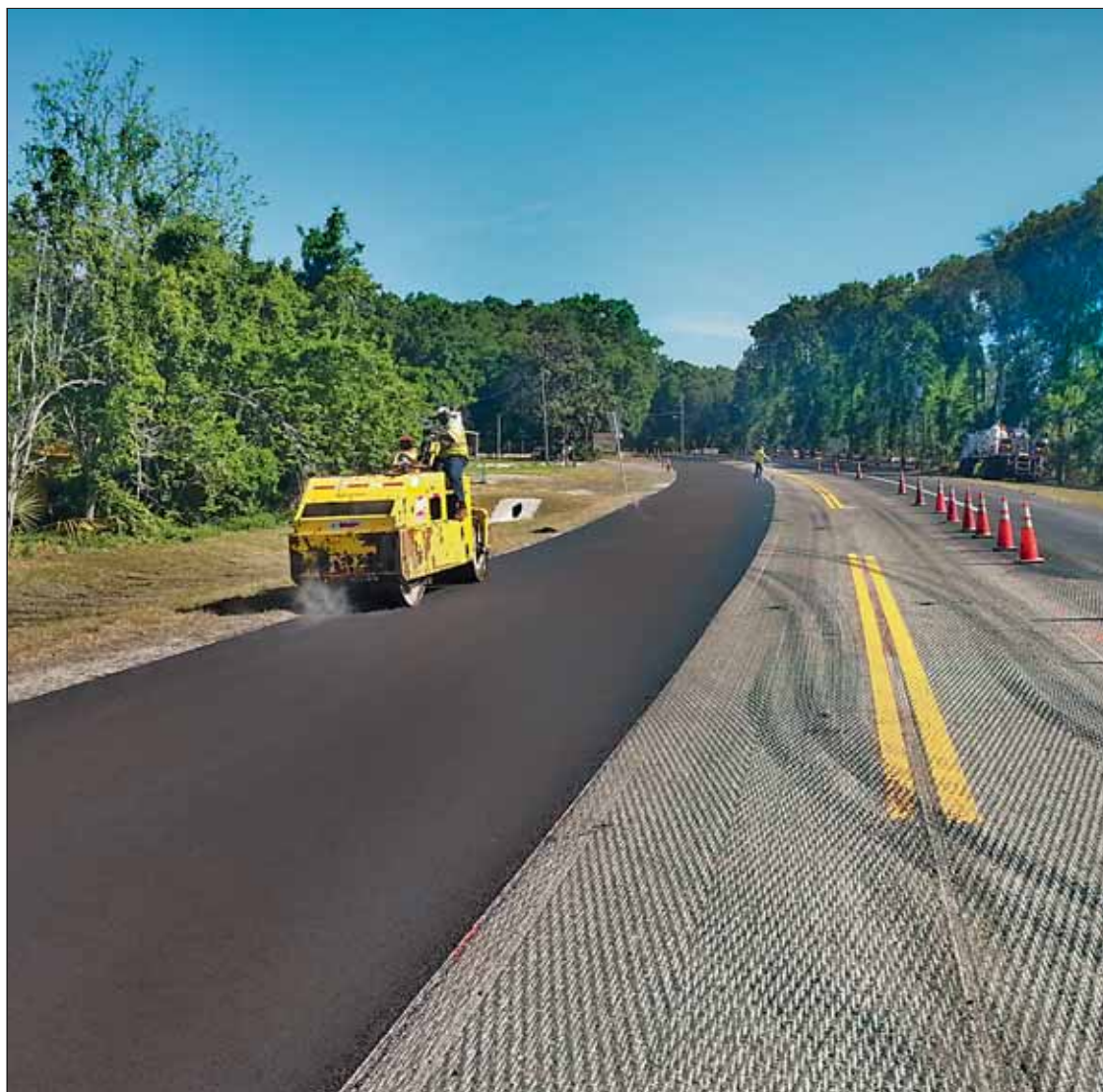
Asphalt, also called bitumen, is a sticky, black and highly viscous liquid or semi-solid form of petroleum. It's found in natural deposits or may be refined as a product. 70 percent of all asphalt/bitumen is used in road construction as a binder mixed with aggregate to create asphalt concrete.

Currently, states have either standard specification for blending in rubberized asphalt, or special provisions. Twelve states have standard specs where rubberized asphalt has been used for many years and is readily accepted. In addition, about half the states have some type of special provision in their spec books to allow its use.

There are three basic ways of putting recycled rubber into asphalt paving:

1. The asphalt-rubber (AR) binder first developed in the 1960s has an American Society for Testing and Materials, specification ASTM D6114, is defined as "a blend of paving grade asphalt cement, ground recycled tire (vulcanized) rubber and other additives, as needed, for use as binder in pavement construction. The rubber shall be blended and interacted in the hot asphalt cement sufficiently to cause swelling of the rubber particles prior to use."

This binder is heavily modified and has about 20 percent rubber with rubber particles 2 mm and smaller in size. It is comparable to an asphalt modified with 7 percent polymer and can be used in reduced thickness compared to regular asphalt.



Rubberized asphalt being installed on State Road 47 (US 129), just south of the city of Trenton, Florida.

PHOTO COURTESY OF FDOT

This binder is widely used in Arizona, California and Texas, and being used more frequently in the Northeast U.S. and in Canada.

Cost savings can be achieved with AR mixes through reduced thickness designs that have been validated in tests in several states, and in practice in California. (California has been using AR successfully for over 30 years). Generally, a two inch AR Gap Graded Mix has the same structural value as a four inch unmodified dense graded mix. The AR friction courses can be placed in 12 mm lifts on asphalt and 25 mm lifts on concrete and can last 7 to 15 years without maintenance depending upon preexisting conditions. In some cases, total asphalt cost can be reduced by 50 percent with the reduced thickness.

2. Then there's the Polymer Switch, Performance Graded (PG) binder where rubber is 8 to 12 percent with a 0.5 mm particle size. It can be used in any type of asphalt mix. This binder is being routinely used in Florida, Louisiana, Missouri,

and recently in Arizona and Texas in the place of polymer modified asphalt. Louisiana was the first state to allow the use of fine grind rubber in the place of SBS (styrene-butadiene-styrene) polymer at the bidder's option. This binder can provide a 15 percent reduction in modified asphalt costs since recycled tire rubber has a much lower cost. Louisiana's DOT has seen a \$2 to \$5 dollar savings per mix ton when rubber is used instead of polymer.

3. Finally, there's a mix additive, often called Plant Mix. This crumb rubber is also small, 0.5 mm and smaller and can be used in almost all asphalt mixes. Georgia's DOT currently allows the use of Plant Mix rubber in certain projects. This mix provides a lower cost than a polymer modified mix since it is made on demand using a simple metered hopper.

"The State of Florida has had a long-term commitment to the use of recycled materials, such as recycled tires," said Jim Musselman, state bituminous materials engineer for FDOT.

"Tire rubber is routinely used as a modifier for asphalt binder in pavements. In controlled amounts, this product helps to provide resistance to rutting and cracking. Under the right conditions, rubberized asphalt can minimize the impact on limited resources and help to achieve Florida's goal of longer lasting roads and bridges."

Musselman reported that the new PG 76-22 specification of 500-ton test sections were placed on 4 FDOT construction projects at various locations around the state. In addition, test sections were also placed at the National Center for Asphalt Technology test track and at FDOT's Accelerated Pavement Test Facility. "Constructability and short-term performance was good. While the evaluations at both locations are still on-going, performance to date has been positive. It is our hope that overall performance of the material will improve and its usage will increase," Musselman added.

While there are a number of ongoing projects in Florida that

See ASPHALT, Page 4

Parks win award for reuse of cargo containers

King County Parks, located in Washington State, took top honors for their eco-friendly cargo camping containers.

King County Parks' popular cargo container-turned-camping structure at Tolt-MacDonald Park near Carnation has been honored with the "Spotlight Award for Innovative Facility" from the Washington Recreation and Parks Association.

The camping container has been a hit with visitors to Tolt-MacDonald Park and Campground since its installation among the tall trees and near the west bank of the Snoqualmie River.

Campers have enjoyed the comfort and convenience of the container,

including a double/single futon bunk and a futon cot-sized chair that converts to a bed.

Radiant heat, LED lighting, a table and bench set, and food storage are among the additional indoor features, while outside there is a deck, picnic table and fire pit.

Developed in partnership with the King County Solid Waste Division Green Tools program, the cargo camping container has been retrofitted with sustainable and recycled materials throughout the design. The work resulted in a facility that achieved the highest "Platinum" rating on the King County Sustainable Scorecard.



When was the last time your camping experience included staying in a repurposed cargo container?

PHOTO COURTESY OF ELI BROWNELL | KING COUNTY PARKS

American recycling habits have room to improve

Curbside recycling is available to more than half of American adults, but the public could benefit from additional education on what can be recycled, according to a recent national survey.

The survey, commissioned ahead of Earth Day by the National Waste & Recycling Association and conducted online by the Harris Poll among more than 2,000 U.S. adults in April, found that two-thirds of Americans are clear on what belongs in recycling bins, indicating an opportunity to expand the other third's knowledge of what can be recycled.

The survey found that more than half of Americans (55 percent) confirm their town or city offers "curbside collection" of recyclables, which they place into a bin or cart separate from their household trash bin. Additionally, two-thirds of Americans (67 percent) say they're clear on what materials go in recycling bins, and 64 percent know it is necessary to rinse used food containers before placing them into recycling receptacles.

Yet, there is some room for improvement on our recycling behaviors. For example, the survey found that one item

causes particular confusion, as 39 percent of Americans incorrectly believe it is acceptable to recycle plastic bags by tossing them into household bins. Plastic bags can damage and even shut down recycling facilities and should instead be recycled at participating grocery stores.

The survey also uncovered that 1 in every 10 Americans admit to having put their trash into recycling bins or carts when their own trash container was full, and 1 in 5 admit they will place an item into a recycling container even if they are not completely sure it is recyclable.

Call2Recycle expands to Hawaii and Puerto Rico

RadioShack and Call2Recycle® stated that the battery collection and recycling program is expanding to stores in Hawaii and Puerto Rico.

In 1994, Call2Recycle was established as a non-profit stewardship program to collect, transport and recycle rechargeable batteries in order to keep them out of the waste stream. Today RadioShack, one of the first national retailers to voluntarily participate, has become Call2Recycle's highest-volume retail partner. Anyone can bring a cell phone or used rechargeable battery into any RadioShack for recycling, with no purchase necessary.

All RadioShack stores in the contiguous U.S. offer the program to their customers. This widespread program participation is responsible for approximately 10 percent of Call2Recycle's total rechargeable battery and cell phone collections to date.

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Lowe's to pay \$18.1 million for illegally dumping waste

San Diego County District Attorney Bonnie M. Dumanis disclosed that the Environmental Protection Unit, working with 31 other state District Attorneys and two city attorneys, obtained an \$18.1 million settlement against North Carolina-based Lowe's Home Centers, LLC for environmental violations.

The judgment is the culmination of a civil enforcement action filed in Alameda County and led by the District Attorneys of Alameda and joined by San Diego and other counties claiming that more than 118 Lowe's stores throughout the state unlawfully handled and disposed of various hazardous waste and materials over a 6.5 year period. The material included pesticides, aerosols, paint and colorants solvents, adhesives, batteries, mercury-containing fluorescent bulbs, electronic waste and other toxic, ignitable and corrosive materials.

Between 2011 and 2013, investigators from the Alameda and San Diego County District Attorney's offices and from the California Department of Toxic Substances Control, along with regulators from San Diego Department of Environmental Health and others statewide, conducted a series of waste inspections of dumpsters belonging to Lowe's stores. The inspections revealed that Lowe's was routinely and systematically sending hazardous waste to local landfills throughout California that were not permitted to receive that waste. The inspections also revealed that at some Lowe's stores, instead of recycling batteries and compact fluorescent light bulbs that the company had gathered from



customers at store recycling kiosks as part of a program to responsibly reduce waste, employees were unlawfully discarding these items directly into the trash.

There are eight Lowe's stores in San Diego County and all eight stores were found to be unlawfully disposing hazardous waste, including numerous containers of paint, fluorescent bulbs, batteries and aerosol cans.

Under the final judgment, Lowe's must pay \$12.85 million in civil penalties and costs. An additional \$2.1 million will fund supplemental environmental projects furthering environmental protection and enforcement in California, and Lowe's will fund hazardous waste minimization projects of \$3.2 million.

Lowe's was cooperative throughout the investigation and has adopted enhanced policies and procedures designed to eliminate the disposal of hazardous waste products in California. Hazardous waste produced by California Lowe's stores through damage, spills and returns is being collected by state-registered haulers, taken to proper disposal facilities and properly documented and accounted for.

Recyclers seek elimination of trade barriers for environmental goods

Institute of Scrap Recycling Industries (ISRI) chief economist Joe Pickard testified before the U.S. International Trade Commission (ITC) at a hearing to examine the economic impacts of barriers to the free trade of environmental goods. Given the critical role the recycling industry plays in global trade and the environment, Pickard called for the ITC to include all scrap commodities and equipment in its classification of environmental goods. He also testified that eliminating tariff barriers would benefit the industry, our balance of trade and the environment.

"The export of environmental goods such as scrap commodities and recycling equipment are not only good for the health of the planet, but also have positive impacts on our balance of trade," Pickard testified. "The United States has already leveled the playing field for the importation of recycled commodities including recovered paper and fiber, metals and plastic scrap, as well recycling equipment such as shredders, balers, shears, cranes, material handlers, conveyors, magnetic separators and spectro analyzers. At the same time, U.S. exporters face significant trade barriers including import tariffs that restrict the free flow of these goods."

In 2013, the United States exported 42.8 million metric tons of commodity grade scrap to 160 destinations worldwide for the manufacture of new products. These activities generated \$24

billion in export sales and significantly helped the U.S. trade balance. In terms of volume, scrap materials are among the nation's largest commodity exports. In addition, U.S. exports of recycling equipment totaled \$435 million in 2011 as export sales accounted for 15 percent of total scrap equipment revenues.

Tariff duties were applied to nearly \$700 million worth of U.S. ferrous scrap exports and \$300 million worth of recovered paper exports last year, while U.S. exporters also face a range of import tariffs on the trade of nonferrous metal scrap and plastic scrap exports as well. In contrast, harmonized tariff data show that there are no general duties imposed by the U.S. on the import of recovered paper and fiber, ferrous and nonferrous scrap, or plastic scrap. Similarly, there is a significant discrepancy between the tariff barriers faced by U.S. exporters of recycling equipment and the treatment of equipment imports into the United States.

"Eliminating tariffs overseas would clearly provide a significant boost to U.S. exporters of recycled goods and recycling equipment and would have positive implications for the U.S. balance of trade," said Pickard. "ISRI fully supports the ITC's timely and much-needed investigation and would welcome the inclusion of the full range of scrap and recycling equipment in this and future examinations."

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Asphalt

■Continued from Page 1

are using the new specification, only six of them have actually started placing the asphalt layers that include asphalt rubber. According to Musselman, no significant problems have been encountered.

"The update to Florida specifications requires storage stability so that the rubber will not separate from the asphalt," said Doug Carlson, vice president of asphalt products at Liberty Tire Recycling.

Liberty, the largest provider of tire recycling in the U.S. reclaims more than 33 percent of the nation's discarded tires and annually converts more than 140 million tires into raw material for sustainable products. The company operates two scrap tire recycling facilities in Florida.

"Florida's old rubberized asphalt specification did not have any equipment requirements for the manufacturing and storage of the binder. There had been some problems with separation and it was non-homogenous when used. The rubber went to the bottom of the tank and all of asphalt would be at the top of the tank. That was because there were no equipment requirements for an agitation system during storage," said Carlson.

According to Carlson, the Florida specification is now a performance graded standard. It allows rubberized asphalt to be used in any type of mix, but is designed for use in mixes for heavy traffic and high pavement surface temperatures.

"There are benefits to the paving contractor," Carlson said. "The new specification requires a suspension agent to keep the rubber suspended in the liquid so the advantage to the contractor is that their normal polymer tanks can easily be used to handle rubberized asphalt. This can be a

significant cost saving since rubberized asphalt generally costs from 5 to 15 percent less than polymer asphalt. Rubber costs less than the asphalt liquid and if asphalt prices stay high, it could make sense to put rubber into regular asphalt, even if a modifier is not needed. The market will decide."

The change in the Florida specification also allows the use of cryogenically produced crumb rubber. Cryogenic crumb rubber refers to the grinding of scrap rubber at temperatures near minus 80°C using liquid nitrogen or commercial refrigerants, whereas ambient or mechanical grinding rubber reduction happens at or above normal room temperature.

Ryan L. Alleman, sales director for coatings, asphalt and construction materials at Lehigh Technologies in Tucker, Georgia, said, "Lehigh Technologies is the world's largest producer of micronized rubber powder (MRP) and ground tire rubber (GTR); however, we are not a tire recycler. We purchase scrap rubber in the form of chips from recyclers throughout the U.S. and further reduce it to finer powders through our patented manufacturing process.

"We rely on hard technical data to help develop the specialty chemical industries we serve, through research completed either at our applications and development center in Tucker or at industry partner labs. One of our recent studies was a joint developmental project completed at the National Center for Asphalt Technology. It assessed nearly a dozen rubber powder products that differentiated in grinding technique and particle size in both a liquid binder and in mix designs. The conclusion affirmed that particle size and surface area have a significant impact on the performance of a rubber modified asphalt binder while grinding technique proved to be insignificant. This has helped shed light on how the various properties of GTR and MRP affect an

asphalt binder and has supported multiple states in the updating of their GTR specifications to allow the use of cryogenic rubber, Florida being one of them," he stated.

Florida is a pioneering state in RMA and related product specifications and many states that are now pulling together their program look to the rubber powder experiences of states like Florida to support their program's development. This is why we felt it was important to pull together industry and state leaders to create a study relevant to today's activities," concluded Alleman.

Tire manufacturers are also supporting the use of RMA. Bridgestone Corporation, the world's largest tire-rubber company, is an active proponent.

John Sheerin, environmental director of retail operations for Bridgestone America was asked about his company's support of rubberized asphalt and the new Florida specifications.

"Bridgestone has an initiative called Tires4ward, where we envision a waste-free tire industry. We want to make sure that for every new tire we sell in the U.S. a spent tire goes to a valuable purpose. One of the best is rubberized asphalt. This is a technology that's been slowly developing over many years and we think that it's a very favorable time to emphasize rubberized asphalt. Not only does the material last longer on the roads and have lower maintenance costs, but the economics are now becoming favorable on the original install costs as well. It's getting to the point where the question is: Why wouldn't you use rubberized asphalt?"

"The new Florida specification is a significant development. Road building is very particular and Florida's new specifications should enable road construction engineers and contractors to speak the same language. For Florida to take this step and lay it out clearly for all the engineers makes it simple and standardized for the entire state and should improve the volumes of rubberized asphalt used. That will assure that the RMA being laid down meets the high quality standards necessary to make sure that our roads are better."

Last year Bridgestone held conferences in Tennessee and Ohio for the purpose of promoting the greater use of asphalt rubber. "The engineers and regulators from the DOTs who attended those conferences were very favorably impressed. The indications we received from those seminars was that the use of the material would continue to increase," Sheerin said.

It appears that increased state interest in rubberized asphalt is not only a great recycling story, but also one that saves taxpayer dollars while paving the way for more durable roads.

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July 29th-31st

2014 WV Solid Waste, Sustainability, and STEM SUMMER WORKSHOP. NASA IV&V Facility, Fairmont, West Virginia. 304-825-1976 • www.marioncoswa.org

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Houston to recycle cartons

The City of Houston has partnered with the Carton Council of North America to launch a new recycling awareness campaign aimed at encouraging residents to recycle their food and beverage cartons. This campaign will follow the city's recent expansion to an automated recycling program, all designed to make recycling as convenient as possible for residents.

The City of Houston is a part of a national movement of communities large and small to add cartons to their recycling programs. Houston residents can recycle their cartons in their green recycling bin or cart, or at one of the city's recycling drop-off centers. The Solid Waste Management Department continues to expand its popular automated curbside recycling program, with 210,000 homes now receiving these services, and future expansions scheduled.

In addition to the Carton Council, a key sponsor of the campaign includes WhiteWave Foods. Because the vast majority of WhiteWave's products are packaged in cartons, the company is committed to ensuring that consumers learn about the availability and importance of carton recycling.

Made mainly from paper, lightweight and compact in design and with a low carbon footprint, cartons have proven to be a sustainable packaging solution that is growing in use for a variety of liquid and food products. Including cartons as an accepted material in curbside recycling programs offers a more cost-efficient option and is a needed component for communities interested in achieving Zero Waste goals.

Waste and recycling industry contributes \$4.2 billion to the Pennsylvania economy

The municipal waste collection, recycling, and disposal industry in Pennsylvania contributes more than \$4.2 billion a year to the state's economy and supports more than 26,000 jobs, according to a new research report prepared by the Philadelphia consulting firm Econ-sult Solutions, Inc., for the Pennsylvania Waste Industries Association (PWIA).

PWIA is the Pennsylvania chapter of the National Waste & Recycling Association and represents private-sector recyclers, haulers, and landfill operators. The report's conclusions are based on accepted economic methodology, using official state and national data and information collected in a survey of Pennsylvania landfill operators, haulers, and recyclers.

PWIA president Mark Pedersen said the municipal waste industry collects, hauls, and disposes of 8.6 million tons of Pennsylvania municipal solid waste annually. "Along with that, we have also evolved into the 'front end' of recycling in Pennsylvania," he said. "Our members collect, haul, separate, and process recyclables that become the feedstock for re-use and re-manufacture into new products. Recycling has become the fastest-growing component of our industry."

The amount of materials recycled in Pennsylvania grew from 4.8 million tons in 2006 to 5.85 million tons in 2011, an increase of 20 percent, according to the report. About 30 percent of Pennsylva-

nia's recycled commodities are exported, which brings new money into the state economy.

Pedersen said private-sector companies in the industry have helped make recycling more attractive and effective by investing heavily in single-stream processing technology. In just the period of 2010 to 2012, the report shows, the industry has invested \$400 million in capital improvements. The report found that single-stream recycling increased by almost 150 percent between 2006 and 2011 and now accounts for 43 percent of all materials recycled in Pennsylvania.

Single-stream generates higher participation in recycling because it doesn't require consumers to separate materials such as glass, paper, and aluminum. Separation is done at a processing facility, often by machines with sophisticated sorting devices. This leads to significant increases in recycling rates, even within communities that already provide curbside collection of recyclables.

According to the report, about half of the industry's \$4.2 billion statewide annual economic contribution is in the form of direct annual operating expenditures and employment within the municipal waste industry – roughly \$2.3 billion. The industry directly provides jobs to about 12,000 people at an average wage of \$55,000 per year.

The other half of the economic contribution occurs in the form of indirect and induced impacts – ripple economic

activity and employment "across a multitude of industries" that do business with and provide services to the municipal waste industry.

The report noted that Pennsylvania has more than 2,200 operations involved in the collection and processing of recyclables, about 500 manufacturers that use recycled materials, and another thousand enterprises involved in reuse and remanufacturing.

"This kind of 'downstream' activity is an important part of the contribution the industry is making to the economy," Robert Bylone, president of the Pennsylvania Recycling Markets Center, said. "I'm glad to see the documentation in this report about the growing emphasis on recycling in relation to disposal that, in part, is occurring in response to the expansion of private markets. We continue to develop the efforts of the RMC and its partners producing results that greatly benefit the economy of Pennsylvania."

The report also said the municipal waste industry annually generates about \$250 million in various taxes and fees to state and local governments, including about \$80 million a year in state disposal, recycling, and environmental fees and about \$60 million a year in payments to municipalities that host disposal facilities.

For a direct link to the full study, view this article on www.AmericanRecycler.com.

What is the difference between ignorance and apathy? I don't know, and I don't care.

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Michigan unveils statewide recycling initiative

Michigan Governor Rick Snyder disclosed a statewide plan designed to increase residential recycling access statewide. He also appointed a nine-member Michigan Recycling Council to guide the plan's implementation.

In his November 2012 Special Message on Energy and the Environment, Snyder called on the Department of Environmental Quality (DEQ) to assemble a stakeholder group tasked with developing a plan. The governor presented his plan during a tour of Clean Tech Inc., Michigan's largest plastic bottle recycling plant, near Monroe.

"Michigan has a strong tradition of protecting and enhancing its environment," Snyder said. "But when it comes to recycling, we must do better. Michigan trails other Great Lakes states and much of the nation in residential recycling. It's a complex challenge but one that we can address. This plan puts us on the right path."

Michigan's recycling rate for residential household waste is about 15 percent. The national average is 35 percent. A recent study concluded more than \$435 million in recyclable metal, glass, paper and plastics goes from Michigan households to Michigan landfills each year.

"States with healthy recycling programs have found that, in addition to reducing pressure on landfills and helping the environment, recycling creates jobs and opens markets for recovered materials," Snyder said. "We've been throwing away money for decades. Addressing this issue is simply the right thing to do."

The 15 point plan focuses on 4 key areas:

- Benchmark and measure progress – including developing ways to better track Michigan's recycling rate and document the progress of the state's effort.

- Public education and technical assistance for communities – other states report that an informed and supportive public is a key to increasing recycling, along with providing tools for local governments to develop local programs.

- Provide convenient access – successful recycling programs feature convenient access at the local level.

- Develop markets – stimulation of market opportunities for recycled products will be addressed with grants and other economic incentives.

The DEQ drafted the plan in cooperation with 45 key stakeholders including recyclers, landfill operators, manufacturers, waste haulers, bottlers, grocery store operators and others.

The effort is supported by a \$1 million appropriation in the governor's recommended fiscal year 2015 budget, along with \$500,000 in DEQ pollution prevention grants that will be committed to support local recycling programs over the next 2 years.

Appointees to the newly created Michigan Recycling Council are:

- Michael Csapo, of Fenton, will represent the recycling community and is the general manager of Resource Recovery and Recycling Authority of Southwest Oakland County.

- Jim Frey, of Detroit, will represent academics and consultants. He is chief executive officer and co-founder of

Resource Recycling Systems and has over 30 years of expertise in environmental program development both in public service and private enterprise.

- Linda Gobler, of Lansing, will represent the retailers on the council. She is president and chief executive officer of the Michigan Grocers Association, where she has served in multiple capacities for the past 28 years. She previously served as a legislative analyst for the Michigan House of Representatives and as an administrator for the Greater Lansing Urban League.

All members of the new recycling council are appointed to a two year term.

- Jim Kulp, of Dexter, will represent the processors. He has worked 32 years with Plastipak Packaging, and currently is the operations manager for Clean Tech Inc., the state's largest bottle recycling facility.

- Bill Lobenherz, of Lansing, will represent the bottlers. He has served as the president of the Michigan Soft Drink Association for more than 25 years. He has also worked as an attorney for Dykema Gossett PLLC, as vice president of Wayne State University, the legal counsel for Michigan School Board Association, and as a drafter for the Legislative Service Bureau.

- Kerrin O'Brien, of East Lansing, will represent environmental interests. She is the executive director of the Michigan Recycling Coalition and has also worked as an independent consultant, executive director of the Mid-Michigan Environmental Action Council, resource recovery agent, and a grant coordinator.

- Tonia Olson, of Lansing, will represent waste haulers, waste industry, and landfill owners and operators. She is the director of governmental and community relations for Granger. She also chairs the Michigan Chamber Energy and Environment Committee. She has worked as a director of marketing and communications and as a recycling coordinator.

- Elisa Seltzer, of Levering, will represent public and community interests. She has been the public works director for Emmet County for 24 years. She has also worked as a curbside recycling coordinator and personnel coordinator for Recycle Ann Arbor.

- Doug Wood, of Muskegon, will represent local government and regions. He is the director of the Kent County Department of Public Works. He has also worked as the executive vice president of ECH Recycling Inc., a project manager for a county resource recovery agency, the manager of a county waste-to-energy project, and as manager of the environmental health division of a county health department.

All members are appointed to a two year term on the council.

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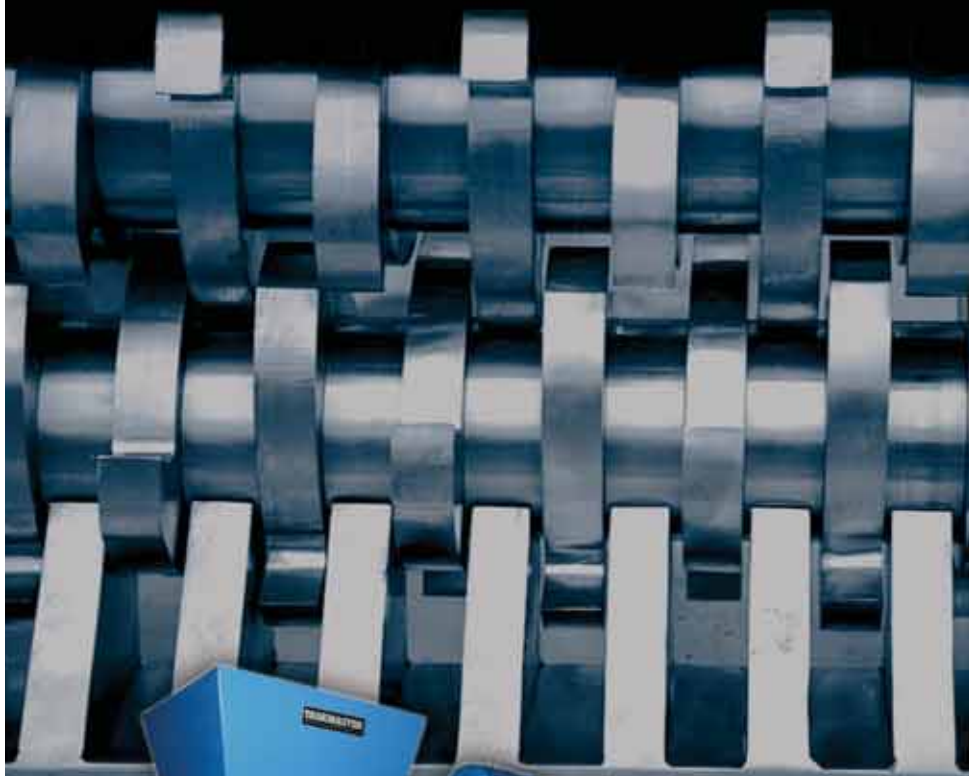
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AUTOMOTIVE

Automobile recycling on the threshold of a new era



The BMW i3 is powered by an emission free electric motor.

At the 14th International Automobile Recycling Congress (IARC 2014) in Brussels, the industry painted a new picture of the future of sustainable automobile production and recycling. New regulations at EU level as well as innovations in the field of auto manufacturing are leading to major changes in the recycling of numerous materials.

At the IARC, representatives of major recycling companies, car manufacturers, authorities and researchers discussed how the industry can – and

indeed must – rise to meet the challenges of upcoming new regulations and changing trends in auto manufacturing.

New energy sources and drive systems demand innovative, sustainable recycling processes. The increasing electrification of drive assemblies in cars calls for technologies capable of recycling new types of manufacturing materials and electric drive components when dismantling the vehicles at the

See AUTO RECYCLING, Page 9

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AUTOMOTIVE

Ryder Truck settles with EPA

Ryder Truck Rental Inc. has agreed to pay a \$22,500 penalty to settle alleged violations of underground storage tank (UST) regulations at the company's facility located at 6605 Governor Printz Boulevard in Wilmington, Delaware, the U.S. Environmental Protection Agency (EPA) disclosed.

EPA cited the company for not complying with safeguards designed to prevent, detect and control leaks of petroleum and other hazardous substances from USTs. The alleged violations involved 2 diesel fuel USTs, each with a 12,000 gallon capacity.

According to EPA, the company failed to conduct required leak detection measures for various periods totaling more than six months, and failed to respond in a timely manner to a suspected fuel leak in 2009. These alleged

violations were documented in an EPA inspection in April 2012 as well as subsequent document requests.

As part of the settlement, the company did not admit liability for the alleged violations. The settlement penalty reflects the company's cooperation with EPA in correcting the alleged non-compliance and resolving this matter.

With millions of gallons of petroleum products and hazardous substances stored in USTs throughout the U.S., leaking tanks are a major source of soil and groundwater contamination. EPA and state UST regulations are designed to reduce the risk of underground leaks and to promptly detect and properly address leaks, thus minimizing environmental harm and avoiding the costs of major cleanups.

Insurance Auto Auctions expands

Insurance Auto Auctions, Inc. (IAA), a business unit of KAR Auction Services, has opened a new branch in Tulsa, Oklahoma.

IAA's new 32 acre facility in Tulsa will utilize 17 acres with additional room for expansion including a second

run and drive lane. The fully-functioning auction facility includes a 10,000 sq.ft. building. The facility supports growing demand in Oklahoma and gives IAA the additional capacity to service customers in the Tulsa market, which accounts for a large percent of all sales in the state.

Auto recycling

■Continued from Page 8

end of their life cycles. The process produces various metal compounds and electronic wastes, which can then be recovered and sold to a new market to generate added value.

"Business with rare metals will reach new dimensions with the paradigm shift to renewable sources of energy," said Roger Burri, manager of Air Mercury AG, a company that specializes in reusing metals obtained from recycling processes.

E-mobility will be the buzzword of the future, Olivier François, vice chairman of the IARC Steering Committee, is also convinced. How can we replace our limited supply of fossil fuels in the medium term, and how can we generally reduce the consumption of and the demand for energy in society?

In his speech, Peter Kronschnabl, president and chief executive officer of BMW in Belgium and Luxembourg, explained ways of utilizing new materials in the field of automotive manufacture and the transformation that is leading to the use of new energy systems. He even brought along his favorite example for test drives – the BMW i3. Powered by an emission-free electric motor, the BMW i3 provides urban mobility wherever it is really important such as in city centers that have long since introduced driving restrictions for certain types of vehicles.

New high-voltage lithium-ion batteries enable electric vehicles to cover greater distances without refueling, but also raise new questions about the end-of-life disposal of their components. In this field, the industry still needs to develop suitable solutions, especially since the EU is introducing new regulations that set tougher

Mercedes-Benz sets pricing for new B-Class Electric Drive

Mercedes-Benz USA disclosed its pricing for the all-new MY14 B-Class Electric Drive, which is the first electric offering for the brand in the U.S.

The B-Class Electric Drive is priced at \$41,450, excluding \$925 destination and delivery. Customers may be eligible for federal tax credits (which run up to \$7,500) or state/local tax credits, which further enhance the overall offering.

The B-Class Electric Drive will launch in summer of 2014.

The MY14 B-Class Electric Drive includes the following standard equipment:

- All Electric Front Wheel Drive
 - Twenty-eight kWh lithium-ion battery
 - Three years of mbrace2 – including access to EV apps and Vehicle Home Page
- All B-Class Electric Drive vehicles will be covered by Battery Coverage Plus which includes 8-year, 100,000 mile battery coverage, coverage for defects, coverage for capacity, no cost annual maintenance and roadside assistance.

Quiet and local emission-free driving is ensured by an electric motor generating 177 hp (132 kW). Typical for an electric

drive system, the motor develops its maximum torque of 251 lb-ft (340 Newton meters). This is approximately equivalent to the torque from a modern three-liter gasoline engine. The result is noticeably powerful acceleration from a standing start, regardless of whether the vehicle is in "E" efficiency or "S" sport mode. The electrically driven B-Class drives from zero to 60 mph in 7.9 seconds.

The B-Class Electric Drive features a full regenerative mode (D-), normal drive (D), and coasting (D+) feature. The "D Auto" feature features a unique radar-based recuperation, which adjusts speeds depending on traffic in front of the vehicle.

The power supply to the electric drive is delivered via a high-performance lithium-ion battery, which is compactly housed in the "Energy Space" in the underfloor of the vehicle.

The MY14 B-Class Electric Vehicle will be available beginning in mid-July, 2014 to dealers in the following states: California, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New York, Oregon, Rhode Island and Vermont. Other state availability will be announced in 2015.

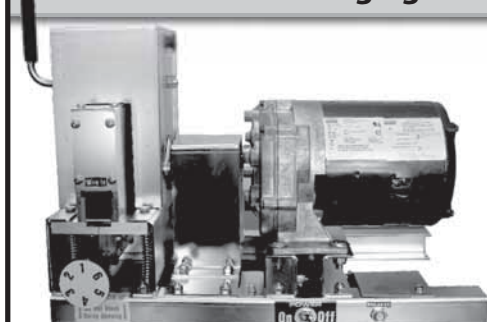
standards for vehicle recycling. With the new End of Life Vehicles Directive, as of January 2015, the EU requires that 85 percent of a car's components are either recycled or reused in the production process – and that 95 percent of the production

materials are recovered in the recycling process and disposed of professionally. However, the question of whether and, in particular, how these targets and specifications can be implemented, was not conclusively answered at the IARC.

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NEW PRODUCT SHOWCASE



NEW CARBIDE INLAID DENSIFIER BLADE FROM ACE

American Cutting Edge (ACE) has released their newest carbide inlaid densifier blade for a popular line of pelletizer machines used in the film industry.

Customers who use this part can expect a significant increase in the life span of their blade and should see cleaner cuts. The carbide inlay will ensure that users have less down time from blade changes, which means more run time for their machines.

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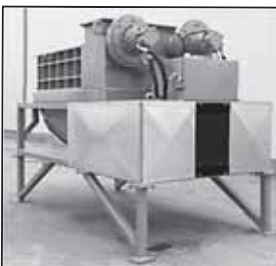
www.americancuttingedge.com



DOOSAN RELEASES THREE NEW MATERIAL HANDLERS

Doosan Infracore Construction Equipment America has introduced three new material handlers and four-tine grapples. Each model is factory fitted with cab risers for increased visibility, straight boom and droop nose arm for optimal performance and improved machine guarding for maximum uptime. Straight booms improve reach and lift height, while droop nose arms provide good grapple clearance and enhanced access into containers, trucks and railcars. Features such as dual-boom cylinders and under-mount arm cylinder placement provide excellent lifting capabilities.

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GRANUTECH LAUNCHES NEW HYBRID-DRIVE OPTION

Granutech-Saturn Systems has developed a hybrid-drive mechanism option for its line of Saturn® industrial shredders, available on new machines and as a retrofit kit.

Hybrid-drive testing has been done on Saturn's dual-shaft shredders but the system will be an option on their single and quad shaft shredders soon.

Users can expect up to a 25 percent increase in efficiency and up to 30 percent more production than equivalent horsepower hydraulic or electric drive shredders. This option is ideal anywhere you would use a single, dual or quad shaft shredder.

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NK Technologies new ATS Series AC Current Sensors combine a current operated switch and transducer in a single package. A prominent feature to the new design is its built-in digital display that provides a quick visual indication of where the contact changes, making it the easiest and most accurate setpoint adjustment available.

ATS current operated sensors are advantageous over electromechanical pressure or flow devices by providing more reliable electronic proof-of-operation, while eliminating the need for multiple pipe or duct penetrations.

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ELECTRONICS

TechWaste extends operations in New York

A new TechWaste Recycling center has opened up in Brooklyn New York. This is the second major location for the company. The new location furthers TechWaste's recycling goal of meeting the growing needs for businesses seeking to dispose of unwanted and outdated electronic waste and IT equipment.

The new location features new services. In addition to providing businesses with electronic waste and recycling programs, TechWaste Recycling is now offering the option of new "Recycle Boxes," and florescent and high intensity discharge lighting disposal services. The Recycle Boxes are free to businesses and include prepaid postage. The boxes are mailed out to businesses and provide a convenient

way for businesses to dispose of electronic products ranging from old cell phones, fax machines and printers to other small electronic items that have met their end of life. All items get recycled responsibly, and in strict compliance with Environmental Protection Agency standards and zero landfill policies.

The New York location is 10,000 sq. ft. with room to expand to 20,000 sq. ft. More than 20 new employees have been hired at the Brooklyn, New York location. TechWaste Recycling is looking to make new business relationships with a broad based clientele. The New York location hopes to reach out to surrounding schools, businesses and communities.

Vermont establishes law for state-wide single-use battery recycling

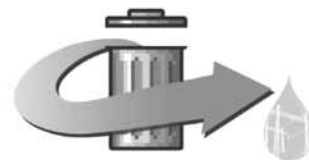
Vermont lawmakers passed H. 695, "Act Relating to Establishing a Product Stewardship Program for Primary Batteries," the first single-use battery product stewardship law in the U.S. Once approved by Gov. Peter Shumlin, the bill will become the first extended producer responsibility law in the U.S. that covers primary batteries of multiple chemistries (e.g., alkaline, zinc carbon, lithium primary silver oxide and zinc air).

The program will go into effect on January 1, 2016.

While some municipal governments and private organizations are already voluntarily collecting and recycling single-use batteries, their efforts have been fragmented and costly. Municipalities in particular have had to carry the burden of collecting batteries without the funds to offset their costs.

To address this issue in Vermont, the bill requires manufacturers to finance collecting and recycling single-use batteries and encourages consumers to recycle through education and outreach programs.

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WASTE

Residents near Bridgeton Landfill to receive settlement

A federal magistrate judge gave preliminary approval to a settlement that will require Republic Services, the owners of the Bridgeton Sanitary Landfill, Missouri, to pay residents living near the site nearly \$7 million. The class action lawsuit that prompted the settlement alleged lost property value and public nuisance caused by the overwhelming and noxious odors released from an underground fire in the depths of the landfill. Notification will go out immediately to residents who will have a choice to accept or reject their portion of the settlement.

The lawsuit was filed March 2013 by attorney Ted Gianaris, of Simmons Browder Gianaris Angelides & Barnerd LLC,

on behalf of more than 400 residences impacted by the putrid smells.

The settlement will go to individuals who were legal residents living in the areas immediately surrounding the landfill between November 2010 and December 2013. In order to receive a portion of the settlement, class members are required to complete and return a claim form.

Residents have compared the smell to rotten eggs or something dead.

The Bridgeton Sanitary Landfill is located at the intersection of Interstate 70 and 270 on St. Charles Rock Road in Missouri. The landfill covers 52 acres and extends below the surface approximately 240'.

Whole Foods reduces food scraps

Whole Foods Market Bellevue and WISerg Corporation, a bio-clean technology company that converts food scraps into organic fertilizer, have agreed to deploy the WISerg Harvester unit at Whole Foods Market Bellevue, Washington.

The Harvester unit will enable Whole Foods Market Bellevue to reduce food waste in a sustainable way and provide data reports to better manage perishable inventory and improve their bottom line.

Whole Foods Market Bellevue will also sell WISerg organic liquid fertilizer.

By identifying the sources of waste, the Harvester gives Whole Foods a more sustainable solution for dealing with their food scraps and provides a solution that minimizes odor and noise associated with compost removal services. The Harvester also captures data about the sources of food scraps that grocers analyze for better inventory management decisions.

Van Hattem inducted into Recycling Hall of Fame

Richard Van Hattem, one of the founders of Republic Services, Inc., was inducted into the National Waste & Recycling Hall of Fame. During his 44 years in the industry, Van Hattem launched successful business ventures that helped give rise to the modern waste industry.

In 1972, Van Hattem founded National Scavenger Service in Chicago, which grew to become one of the region's largest independent haulers until its combination with a Republic Services predecessor company in the 1990s. Early on, Van Hattem recognized the operational efficiency and cost competitiveness that could be achieved through a transfer station, and built one on Chicago's west side. It wasn't until years later that the same model would be broadly adopted, creating an operational improvement with impact industry wide.

"Republic Services would not be the company it is today without Rich," said Republic Services president & chief executive officer Don Slager. "Not just for the financial assets brought to the company through National Scavenger Service, but for his vision and the leadership model Rich inspired in all of us. Future generations will point to Rich as one of several individuals who enabled the modern waste

industry's growth and rise to a position of strength."

Van Hattem also has been heralded for his collaborative leadership style, which often was called upon to bring parties together. He earned high regard from waste haulers, for the way he built and operated his business and for his adherence to the highest ethical standards.

During his tenure, Van Hattem was largely responsible for setting in motion the company's growth trajectory, providing the vision and business acumen necessary to dramatically expand its operations nationally. Growing from \$25 million to more than \$6 billion at the time of his retirement in 2006, Van Hattem's leadership in multiple, executive-level positions helped build the Company into the second largest waste services provider in the United States.

Van Hattem also served as treasurer and a member of the Board of Trustees of the National Waste & Recycling Association for nearly 10 years.

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1999 SIERRA 500T SHEAR/LOGGER/BALER

1999 Sierra 500 ton shear/logger/baler. \$127,500



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2011 Hitachi 225LC with 2012 Genesis GXP300R shear. \$196,000



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METALS

Theft tracking system now easier to use

The Institute of Scrap Recycling Industries (ISRI) launched a redesign to ScrapTheftAlert.com, an online tracking system used to by law enforcement to report stolen materials. The system allows law enforcement (and corporate security personnel) to post alerts that are sent to users within a 100-mile radius of the theft location.

ScrapTheftAlert.com has yielded more than 235 arrests or warrants issued and helped to recover more than \$1.3 million in property. The newly redesigned ScrapTheftAlert.com offers the following features to make the system easier to use while expanding functionality:

- Easier user interface for registering and submitting alerts;
- Ability to select multiple locations to receive alerts;
- Enhanced customizable search capabilities by material, region, date, and key words;
- Extractable search results; and,
- Additional materials categories to include vehicles, batteries, and cargo theft.

Earlier this year, ISRI announced the creation of the Law Enforcement Advisory Council which is tasked with the development of a multi-layered training program to assist law enforcement in metals theft prevention.

Steel import market share at 28 percent in April

Based on the Commerce Department's most recent Steel Import Monitoring and Analysis (SIMA) data, the American Iron and Steel Institute (AISI) reported that steel import permit applications for the month of April total 3,682,000 net tons (NT). This was a 4 percent increase from the 3,551,000 permit tons recorded in March and 14 percent increase from the March final imports total of 3,234,000 NT. Import permit tonnage for finished steel in April was 2,658,000, up 9 percent from the final imports total of 2,439,000 in March. For the first 4 months of 2014 (including April SIMA and March final), total and finished steel imports were 13,407,000 NT and 9,814,000 NT, respectively, up 29 percent and 19 percent from the same period in 2013. The estimated finished steel import market share in April was 28 percent.

Finished steel imports with large increases in April permits vs. the March final included standard rails (up 108 percent), wire rods (up 55 percent), standard pipe (up 52 percent), heavy structural shapes (up 41 percent), cold rolled sheets

(up 34 percent), line pipe (up 29 percent) and hot rolled bars (up 19 percent). Products with significant year-to-date (YTD) increases vs. the same period in 2013 include wire rods (up 105 percent), plates in coils (up 63 percent), cold rolled sheets (up 54 percent), reinforcing bars (up 40 percent), sheets and strip hot dipped galvanized (up 36 percent), sheets and strip all other metallic coatings (up 35 percent), hot rolled sheets (32 percent), mechanical tubing (31 percent), oil country goods (up 16 percent) and cut lengths plates (up 12 percent).

In April, the largest finished steel import permit applications for offshore countries were for South Korea (402,000 NT, up 16 percent from March final), China (398,000 NT up 99 percent), Japan (195,000 NT, up 14 percent), Turkey (121,000 NT, down 29 percent) and Russia (103,000 NT, up 3 percent). Through the first 4 months of 2014, the largest offshore suppliers were South Korea (1,568,000 NT, up 27 percent from the same period in 2013), China (965,000 NT, up 73 percent) and Japan (692,000, up 5 percent).

March steel shipments up 9.4 percent

The American Iron and Steel Institute (AISI) reported that for the month of March 2014, U.S. steel mills shipped 8,337,578 net tons, a 9.4 percent increase from the 7,618,380 net tons shipped in the previous month, February

2014, and a 5.2 percent increase from the 7,922,265 net tons shipped in March 2013. Shipments year-to-date in 2014 are 23,851,251 net tons, a 1.2 percent increase vs. 2013 shipments of 23,569,379 net tons for 3 months.

Novelis reacts to lawsuit against London Metal Exchange

Novelis Inc. president and chief executive officer, Phil Martens, issued the following statement in response to a ruling by the UK High Court regarding planned changes to aluminum warehousing rules by the London Metal Exchange (LME):

"We are very disappointed with the outcome of the legal process in the UK," said Martens.

"It is indefensible that queues of more than a year exist at warehouses, and unconscionable that players in the aluminum market are actively working to maintain the status quo to protect artificially inflated premiums. The divergence between the LME price and the physical market price is undermining the credibility of the industry's pricing discovery process and causing havoc in the fabricating and consuming end of the industry. This is a global issue.

"This recent legal action taken outside of the LME's consultation process is grievous – it sanctions the continuation of this destructive regime. At the same time, the producers are continuing to make out-sized windfall gains, which a year ago we estimated to be \$3 billion, but are now twice that level. This exploitation of an artificial market squeeze appears to us to be blatant, and the effects are being felt further down the supply chain and ultimately by the end consumer.



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METALS

Circosta Iron & Metal fined \$500,000 for violation of metal theft prevention laws

San Francisco District Attorney George Gascón disclosed that one of San Francisco’s largest metal recyclers, Circosta Iron and Metal Company, Inc., will pay \$500,000 as part of a settlement of a civil prosecution brought by the District Attorney.

“We can’t rely on enforcement alone to effectively stop metal thieves. We also have to make sure they can’t find an avenue to sell their stolen goods, and that requires recycling companies to do their part to deter metal theft by following the law,” said District Attorney George Gascón.

In recent years, California has seen an increase in metal theft from local governments, construction sites, public transit, utilities and foreclosed homes. In an effort to shut down the market for stolen metal, California has passed laws designed to prevent, deter and detect metal theft by imposing requirements on companies that purchase scrap metal. For example, scrap metal dealers must take steps to determine that the material they are purchasing was not stolen, and they must photograph, fingerprint, and record the identification of individuals selling certain types of scrap metal. Unless a statutory exception applies, dealers must also wait three days before paying the seller for the scrap metal.

Circosta owns and operates a single metal recycling facility in San Francisco. According to the complaint, Circosta consistently violated these anti-metal theft laws, including, for example, not holding payments for the required three days or buying scrap metal without requiring identification or other information from the sellers.

Under the settlement, Circosta must pay \$500,000 in civil penalties and costs. Circosta will also be bound by a permanent injunction that ensures good business practices and prohibits future violations of the law. By entering into this injunction, Circosta is agreeing to procedures that will make it a model for California metal recyclers in the future.

This settlement is the third metal recycler prosecuted by the San Francisco District Attorney’s office since 2013. These three companies represent the vast majority of metal recycling in San Francisco.

Within the last 12 months, the District Attorney has brought civil enforcement actions against each of the largest San Francisco metal recyclers in an effort to put an end to the metal theft epidemic. The settlement with Circosta brings the total penalties and costs assessed against these companies thus far to \$4.6 million dollars.

U.S. Coast Guard Academy wins recycling contest

The Great American Can RoundUp resulted in over 163,200 cans recycled

The U.S. Coast Guard Academy claimed top honors in the Great American Can RoundUp’s (GACR) first Commander-in-Chief’s Challenge by recycling more than 89,000 beverage cans, equating to almost a pound per cadet or more than 2,560 pounds of total cans recycled. U.S. Military Academy Company C3, 3rd Regiment recycled nearly 11,790 aluminum cans, putting them in first place for the individual company competition.

Sponsored by the Can Manufacturers Institute (CMI), the GACR spreads awareness of the environmental benefits of recycling aluminum cans. This first Commander-in-Chief’s Challenge, provided an environment that fostered healthy competition and educational opportunities for both the U.S. Coast Guard Academy and U.S. Military Academy. The challenge ran from November 15, 2013, through March 15, 2014 and with more than 163,200 cans recycled overall, both academies fully embraced the recycling competition.

As the top per capita aluminum can recycling winner of the inter-academy challenge, the Coast Guard Academy distinguishes itself with an engraved plate on the Commander-in-Chief’s Perpetual Trophy, as well as \$3,000 for future academy activities. Of the eight companies within the academy, the Echo Company received \$500 for collecting the most cans, recycling 3,254 cans, which equates to 94 pounds. Accepting the award were Cadets Allyson Roesch and Kimberlee Capp.

Nearly 74,200 cans were collected and recycled by the U.S. Military Academy during this challenge, which equates to more than 2,100 pounds recycled by all 36 companies within the academy.

Company C3, 3rd Regiment received \$500 for taking first place against all 44 competing companies. Cadet McKenzie Hudgins, C1C, accepted the check for the academy.

AR Scrap Metals MarketWatch

Commodity		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5
#1 Bushelings	per gross ton	\$272.00	\$289.00	\$298.00	\$375.00	\$365.00
#1 Bundles	per gross ton	270.00	288.00	298.00	370.00	360.00
Plate and Structural	per gross ton	267.00	289.00	298.00	370.00	370.00
#1 & 2 Mixed Steel	per gross ton	265.00	289.00	295.00	345.00	355.00
Shredder Bundles (tin)	per gross ton	225.00	250.00	190.00	275.00	290.00
Crushed Auto Bodies	per gross ton	225.00	250.00	190.00	275.00	290.00
Steel Turnings	per gross ton	175.00	179.00	128.00	230.00	231.00
#1 Copper	per pound	2.85	2.80	2.90	3.04	2.98
#2 Copper	per pound	2.74	2.68	2.74	2.87	2.76
Aluminum Cans	per pound	.60	.65	.75	.78	.70
Auto Radiators	per pound	1.92	1.90	1.90	1.98	1.89
Aluminum Core Radiators	per pound	.61	.60	.70	.68	.63
Heater Cores	per pound	1.69	1.60	1.40	1.70	1.59
Stainless Steel	per pound	.70	.61	.70	.87	.79

All prices are expressed in USD. Printed as a reader service only.

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RUBBER

Large tire recycling facility opens in Houston

New \$140 million plant capable of recycling 10 million tires annually

Bringing modernized, climate friendly recycling technology to the U.S., the world's largest tire recycling company officially opened their new state-of-the-art tire recycling facility in Houston, Texas.

Genan, a business engaged in the extraction and production of rubber granulate (crumb rubber), rubber powder and steel from scrap tires, currently operates the world's four largest tire-processing plants in Germany and Denmark. The

Houston facility will employ approximately 60 workers and was constructed over the last 2 years with an investment of \$140 million. The new plant has the capacity to recycle approximately 10 million passenger car tire equivalents a year, about a third of all the used tires in Texas.

The grand opening of Genan's Houston facility, now the largest of its kind in the world, marks the first manufacturing location launched by the company in the U.S. and will become the U.S. headquarters for their expansion plans in an effort to capture 10 percent of the American recycled tire market. The company's strategic expansion plans include a network of four new plants across the U.S. in the coming years.

Lars Raahauge, Genan's director of business development, said, "We are currently performing due diligence on a number of states across the country. Exact locations will depend on the long-term reliability of available tire supplies as well as a business setting, community support and a legislative and regulatory approach that is compatible with Genan's environmentally and climate friendly tire recycling concept."

Today, a large percentage of the world's scrap tires are incinerated in cement kilns for tire derived fuel, disposed of in landfills or utilized in civil engineering filling operations. This unfortunate end use of a valuable resource prohibits the beneficial recovery for the replacement of new virgin material.

Numerous scientific studies and life cycle assessments have demonstrated that the Genan recycling process, compared to incineration for tire derived fuel and civil engineering filling operations, dramatically reduces greenhouse gas emissions, acidification and fossil fuel demand. The company has a motto of "Don't dump or burn a valuable resource!" to highlight the process Genan utilizes compared to other disposal methods for scrap tires.

Genan's recycling technology is fully automated and has undergone continuous development since inception in 1990. Scrap tires are separated into their basic components: rubber powder and granulate, steel and textiles. The end products are uniform, clean and well suited for high quality substitution applications, such as asphalt and bitumen modifications.

Genan's products are also used for synthetic turf installations, playgrounds and recreational facilities, sports tracks and grounds, asphalt roads, building products, flooring, injection molded products, industrial applications, noise insulation and many other purposes and applications.

Within 24 months, the Genan Houston plant will be expanded to produce a line of very fine cryogenic rubber powder and a technologically unique devulcanization line for the production of rubber, which will be able to substitute virgin rubber compounds.

Salvaging Millions

by Ron Sturgeon
Autosalvageconsultant.com

Pay for performance – could your yard become twice as productive at dismantling?

One of a continuing series of articles on increasing profits and cash flow.

Increasing sales often takes months and requires the capital to buy more cars and absorb more marketing expenses. Want a quicker path to increased profitability? In past articles, I have discussed pay for performance for sales people, inventory people, parts pullers and order fulfillers, dismantlers and delivery drivers.

You can get back to the level of profitability that you once enjoyed by lowering your costs. The beauty of increasing profits by cutting expenses is that it can be done immediately and that it often produces better cash flow and profit numbers within weeks. Having achieved better cash flow and profits, you can then use the surplus to buy more cars and get the inventory to drive higher sales.

In this article, I will discuss how you can implement pay for performance for cradle-to-grave dismantling.

This concept is very simple. It should be implemented at the same time that you start to pay dismantlers by the vehicle. Most yards have different people moving cars in and out, cleaning parts, tagging and stocking parts, as well as having dismantlers. Parts get handled many times by different people. Parts frequently get misplaced in one of the steps or damaged, and no one knows who damaged the parts or how it happened.

Yards I have worked with combine all of these functions into a cradle-to-grave dismantler. Head count drops significantly, but productivity increases and less time is lost hunting for parts or trying to figure out who damaged them. Dismantlers do it all.

Expect about 2 cars per day and expect to pay about \$75 per car. Your best dismantlers will never leave because they will work fast enough to earn about \$1,000 per week. Your labor cost per vehicle will drop like a rock.

I've heard all the excuses some owners make for not trying cradle-to-grave

dismantling and pay for performance. Some yard owners say it won't work. However, I know that their best run competitors are doing it and that it does work.

These more aggressive yards are using the extra money they earn from switching to cradle-to-grave dismantling and pay for performance to buy more cars and grow.

By the way, one key to making it work is to have enough forklifts. Dismantlers should never wait for more than 15 minutes for a forklift. Forklifts are cheap, they don't take lunch breaks, and they never complain, so buy one when your dismantlers ask if wait times justify the purchase.

How much more productive are cradle-to-grave dismantling yards? Expect a 50 percent lift in productivity when you switch to pay for performance and cradle-to-grave dismantling.

If your dismantlers get finished early, let them go home early, or issue them a P.O. for other work in an amount that seems fair. Be sure they know that you are calculating their hourly wage based upon what they earn dismantling, so the faster they are, the more they will get for any other hourly work. Even their vacation pay should be calculated based upon their last eight weeks' average hourly earnings. When these incentives are in place, stand back. Your dismantlers will hustle like you've never seen.

On the very rare occasions when we did not have cars to dismantle, we usually gave our people other work or had them sweep the warehouse. Our people made more money, some went home earlier, and our warehouses were always spotless.

You can't afford to put off this move; your most successful competitors have already lowered their labor costs. The benchmark – your labor expenses should be at or below 20 percent of your total parts sales.

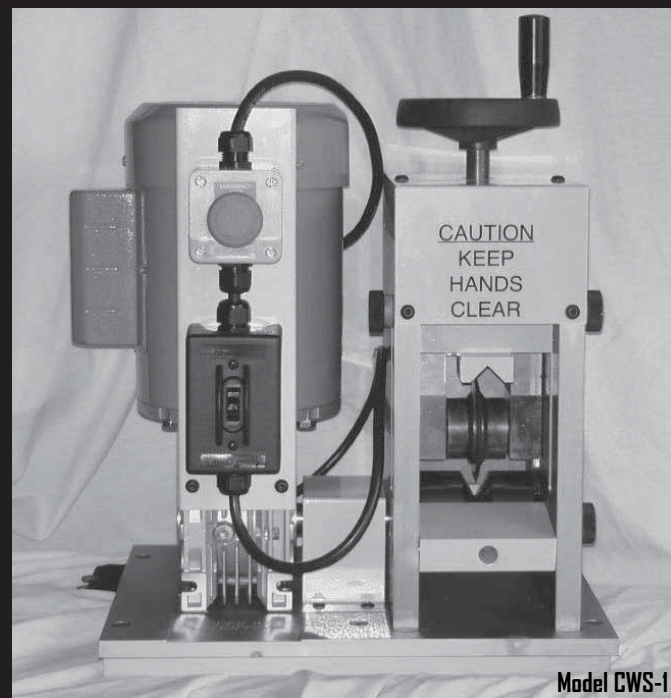
Make the move to pay for performance this year and become more efficient, more productive, and more profitable.

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This article was provided by autosalvageconsultant.com, which was formed in 2001 by recyclers for recyclers, to help them improve their businesses.

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BUSINESS BRIEFS

Advanced Disposal appoints Spegal as COO

■ ADS Waste Holdings, Inc., operating as Advanced Disposal, has appointed John Spegal chief operating officer (COO). He will direct company-wide operations for Advanced Disposal's footprint.

Prior to joining Advanced Disposal, Spegal spent more than 6 years with AIRserv Group LLC as regional vice president and was responsible for their East coast operations, providing tire inflation and vacuum vending services for 20,000 machines at service stations to convenience stores.

Spegal was employed at Allied Waste Industries/Browning Ferris Industries for over 20 years serving in various management roles.

Terex appoints Gonzalez to expand sales force

■ Terex Construction Americas is making a strategic investment in its Terex® Fuchs material handler business, beginning in the second quarter of 2014. The company will significantly expand the Terex Fuchs sales force to broaden representation and support for its existing scrap distribution network and customers.

Leading the charge of the expanded field sales force initiative is Martin Gonzalez, newly appointed sales director for Terex Construction Americas. Gonzalez will have primary responsibility for the market expansion and sales initiatives for Terex Fuchs equipment in the Americas, as well as manage strategic programs for compact construction equipment sales and distribution in the Latin American region.

Morbark continues to expand dealer network

■ Morbark, Inc., continues to aggressively expand its dealer network domestically and internationally, signing contracts to establish nine new dealers and expand the equipment offerings of three existing dealers over the past year.

New dealers Bobcat of Buffalo, Bobcat of Fort Wayne, Cubex, Ltd., Encon Equipment, Equipment Seekers, Goodfellow Corporation and Greenman Machinery Company, as well as existing Morbark industrial equipment dealer James River Equipment, became authorized dealers of Morbark tree care equipment, selling the company's heavy-duty Beever line of brush chippers, as well as Morbark stump grinders.

New dealers Suffolk County Brake Service, Goodfellow Corporation and AfrEquip, as well as existing Morbark tree care dealers Alexander Equipment Company and Ness Turf Equipment, are now official industrial equipment dealers, handling Morbark's complete line of recycling and forestry machines, including biomass chippers, Chiparvestors®, flails and tub and horizontal grinders.

Granutech ships shredders to overseas military bases

■ Granutech-Saturn Systems has sold three of its mobile shredders to the U.S. Military, through the Defense Logistics Agency. The additional dual-shaft Saturn shredders have recently been deployed and will be used on military bases overseas in locations that include Okinawa, Guam and Hawaii.

Meese Orbitron Dunne adds regional sales reps

■ Meese Orbitron Dunne Co. (MOD), Ashtabula, Ohio, has named David McHugh and Don Fowler regional sales managers.

McHugh, offering 25 years of material handling experience, serves the northeastern territory, which encompasses New York, New Jersey, eastern Pennsylvania, Connecticut, Rhode Island, Vermont, Massachusetts, New Hampshire, Maine, Delaware, Maryland, Virginia and the Canadian provinces of Quebec, Newfoundland, Labrador, New Brunswick and Nova Scotia.

Fowler brings a wide range of expertise in plastics, packaging, warehousing and industrial safety to the southeastern territory, which encompasses Arkansas, Alabama, Mississippi, Georgia, Florida, North Carolina, South Carolina and Puerto Rico.

Carpet America Recovery Effort names chairman

■ Carpet America Recovery Effort (CARE) has named Brendan McSheehy as chairman of its board of directors.

McSheehy has participated on CARE's board of directors since 2006, previously serving as vice chair and treasurer. He has 38 years of experience in the textile industry, and has been actively involved in carpet fiber recycling since 1993. He has worked with Bristol, Virginia-based Universal Fiber Systems LLC for more than 24 years, currently serving as vice president of innovation, sustainability and intellectual property.

US Ecology to acquire The Environmental Quality Co.

■ US Ecology, Inc. has entered into a definitive stock purchase agreement to acquire The Environmental Quality Company (EQ), an environmental services and waste management company based in Wayne, Michigan, with facilities throughout the Eastern U.S. EQ is owned by an affiliate of New York based private equity fund Kinderhook Industries, LLC. The transaction, valued at \$465 million, is expected to close in the second or third quarter of 2014 and is subject to customary closing conditions, and a purchase price adjustment based on working capital. The acquisition is expected to be accretive to adjusted earnings per share for the full year 2014.

The total purchase price of \$465 million will be financed using a combination of cash on hand and committed debt financing, consisting of a new \$540 million credit facility made up of approximately \$415 million in a 7 year term loan and a \$125 million 5 year revolving credit facility.

Vecoplan names Davidson sales engineering manager

■ Matt Davidson has been promoted to sales engineering manager – waste systems, at Vecoplan LLC. In his new position, Davidson will oversee technical engineering input and assistance from initial discussions of client needs, through the development and commissioning of systems that meet those needs.

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BUSINESS BRIEFS

BACE hires Leon as senior VP, sales and marketing

■ BACE, a manufacturer of vertical balers and compactors, has hired Gregory J. Leon to the position, senior vice president, sales and marketing. Leon brings more than 25 years of experience with major manufacturing firms in the waste and recycling equipment industry.

Leon started out his family's business, K-Metal Fabrication of Croydon, Pennsylvania, ultimately assuming the role of sales manager and growing sales more than 350 percent in a 3 year period. He then moved on to become operations manager for Philadelphia Tramrail Company, then regional director of sales for Marathon Equipment Company. In his two most recent positions, he served as director of sales at PTR Baler & Compactor Company in Philadelphia followed by vice president of sales for River Road Waste Solutions of Tinton Falls, New Jersey.

A woman had twins and gave them up for adoption. One went to a family in Egypt and was named Amal. The other went to a family in Spain and was named Juan. Years later, Juan sent a picture of himself to his mum. Upon receiving the picture, she told her husband that she wished she also had a picture of Amal. Her husband responded, "But they are twins! If you've seen Juan, you've seen Amal."

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BUSINESS BRIEFS

The Timken Company acquires Schulz Group

■ The Timken Company has further expanded its industrial services capabilities with the acquisition of assets from the Schulz Group, based in New Haven, Connecticut.

Schulz Group serves customers nationwide in the commercial nuclear power sector, as well as regionally in the hydro and fossil fuel market sectors, water management, paper and general manufacturing sectors in the New England and Mid-Atlantic regions. In 2013, Schulz Group had full-year sales of approximately \$18 million and employed 125 people.

The purchase includes assets from Maine Industrial Repair Services, Inc., based in Augusta, Maine; Schulz Electric Company in New Haven, Connecticut, S.E.C. Electrical located in Braintree, Massachusetts; and Stultz Electric Motor & Controls of Portland, Maine, which collectively operate as the Schulz Group.

Atlas Copco partners with Stewart & Stevenson

■ Atlas Copco Construction Equipment has entered into a distributor agreement with Stewart & Stevenson throughout various territories in the U.S.

Headquartered in Houston, Texas since 1902, Stewart & Stevenson provides equipment and service from a network of sales and service centers. Stewart & Stevenson teams with partners to provide a broad line of products, including quality custom power generation packages for on-site continuous, emergency standby, peak-shaving and now, Atlas Copco portable energy equipment.

Aleris completes acquisition of Nichols

■ Aleris has completed its acquisition of Nichols Aluminum, LLC, a producer of aluminum sheet for the transportation, building and construction, machinery and equipment in North America.

The acquisition includes two production facilities in Davenport, Iowa, a facility in Decatur, Alabama, and a facility in Lincolnshire, Illinois. The company has agreed to pay \$110 million in an all-cash transaction.

OBC becomes exclusive U.S. distributor for Iris Mec

■ Italian-based automotive recycling equipment manufacturer, Iris Mec, has entered into an exclusive distribution agreement with OBC Baling. OBC will manage the sales and servicing of Iris Mec products throughout the U.S.

As an established provider of balers, shears and other scrap metal recycling equipment, OBC is positioned to introduce the Iris Mec products, and the cost-effective benefits they provide.

Iris Mec's products assist recyclers with the removal of hazardous materials from retired automobiles.

Newalta corporation nominates new directors

■ Newalta Corporation has nominated two new directors for election to the board of directors.

Harvey Doerr, retired in 2009 as executive vice president of El Dorado, Arkansas-based Murphy Oil Corporation. With more than 28 years in the oil and gas industry, his experience includes broad exposure to domestic and international exploration and production, heavy oil/oilsands, offshore, refining, retail marketing, acquisition and divestiture, strategic planning and government relations. At Murphy, a major U.S.-based independent oil company, he was responsible for worldwide refining and marketing operations and strategic planning. Doerr is also on the board of MEG Energy Corp. of Calgary, which is actively developing enhanced oil recovery projects in Alberta that utilize steam-assisted gravity drainage extraction methods.

Robert Gemmell, was president and chief executive officer of Citigroup Global Markets Canada and its predecessor companies (Salomon Brothers Canada and Salomon Smith Barney Canada) from 1996 to 2008. In addition, he was a member of the Global Operating Committee of Citigroup Global Markets from 2006 to 2008. Gemmell is a director of Agnico Eagle Mines Limited, one of the world's largest gold mining companies.

Lakeshore makes management changes

■ Lakeshore Recycling Systems (LRS) has appointed Alan T. Handley to chief executive officer, and John J. Larsen, vice president of operations. Handley, previously served in the capacity of chief financial officer at LRS; Larsen joins LRS from Republic Services, where he served as general manager, Chicago operations.

Handley previously served as chief financial officer at LRS and has helped drive the company's growth and integration following the merger of Lakeshore Waste Services with Recycling Systems Inc. in 2012. He brings more than two decades of frontline executive management leadership, operations and turnaround experience.

Larsen will be responsible for all LRS commercial, residential and roll-off operations. He joins LRS following a successful 15 year run at Republic Services, Inc., where he rose to the rank of general manager for the company's Chicago operations, overseeing 210 employees who serviced commercial and industrial customers.

Larsen also served as liaison and contract administrator with large government accounts, including Chicago Public Schools, Chicago Transit Authority and the Metropolitan Pier and Exposition Authority.

Larsen began his career at Waste Management, Inc., where he served as operations manager of the company's Morris, Illinois division.

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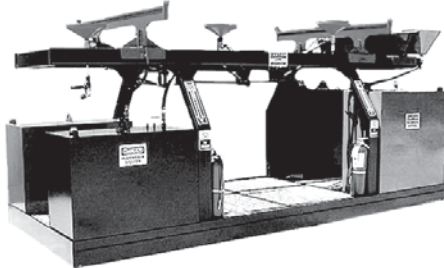
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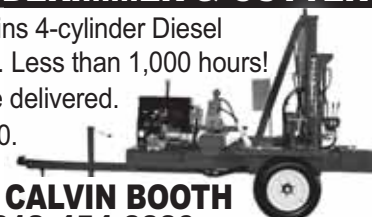
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SECTION B

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JUNE 2014

Post-Green Fence plastics recyclers adapt

by MARK HENRICKS

mhenricks@americanrecycler.com

When Chinese inspectors early last year unexpectedly began rejecting large quantities of recyclables imported from the United States and elsewhere for not meeting contamination standards, the operation that became known as Green Fence created problems for a U.S. plastics recycling industry that experienced a major interruption in ability to sell to what had been their biggest customer. More than a year later, Green Fence appears to have ended, but its effects linger and promise to significantly change the plastics recycling industry here.

Brian Conners, president and chief operating officer of ARCA Advanced Processing in Philadelphia, said Chinese officials at a recent meeting clearly indicated that the stepped-up routine of inspections that characterized Green Fence was over. "The enforcement will continue although it won't be as rigorous as far as checking everything," he said. "But the message is clear: They don't want waste coming to China."

Conners said his own firm, which processes appliances for recyclable materials, including large quantities of plastics, was already meeting specifications required by regulation. These called for no more than one or two percent of unrelated material, depending on the material, in a shipment. Before Green Fence, some containers labeled as recyclable materials reportedly had up to 40 percent non-recyclable trash.



Now that China's Green Fence inspections appear to have been relaxed, U.S. plastics recyclers are still reaping the benefits of compliance. Overall, Green Fence forced recyclers to invest in additional sorting technologies, which are helping to produce cleaner, more uniform bales. DARREN PATTERSON | DREAMSTIME

"Green Fence actually never impacted us because we sell really high quality," Conners said. The company had only a single shipment rejected after Green Fence inspection, he said, and that was not because it had too much

trash mixed in with the waste. What has changed as a result of the enforcement action, Conners said, is the disappearance of middlemen who purchased recyclables from processors for shipment to Chinese end users. "The customers that

solicit us today are representatives of the actual separator or consumer in China," he said.

Another observer said the result of Green Fence has been profound when it **See GREEN FENCE, Page 5**

Plastics machinery shipments stay strong in Q4

Business levels for manufacturers and suppliers of primary plastics machinery (injection molding, extrusion, blow molding and thermoforming equipment) posted another strong quarterly performance in the fourth quarter (Q4) of 2013. According to statistics compiled and reported by the Committee on Equipment Statistics (CES) of SPI: The Plastics Industry Trade Association, shipments of primary plastics equipment

for reporting companies totaled an estimated \$335.1 million in Q4.

This was the strongest quarterly total for all of 2013. The Q4 total represented a gain of three percent when compared with the impressive total from the third quarter (Q3) of 2013, and it was just slightly lower than the outstanding total from Q4 of 2012. For 2013 as a whole, the total value for primary plastics equipment shipments was

up a solid eight percent when compared with the annual total from 2012.

The shipments value of injection molding machinery decreased five percent in Q4 when compared with the unusually large total from Q4 of 2012. The shipments value of single-screw extruders slipped 2 percent, but the value of shipments of twin-screw extruders spiked up 72 percent. The shipments value for blow molding

machines jumped 91 percent in Q4. The shipments total for the volatile thermoforming equipment sector fell 34 percent in Q4 when compared with last year.

The CES also compiles data on the auxiliary equipment segment (robotics, temperature control, materials handling, etc.) of the plastics machinery industry. New bookings of auxiliary equipment for reporting companies totaled \$101.3

See MACHINERY, Page 6

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A Letter from the Editor

Readers,

You may have noticed that I periodically use this space to comment on various political happenings. Furthermore, you may have detected an ever so slight slant to the right side of the political spectrum in my opinions (it's barely there!). But what I'd like to discuss this month should transcend the politics of right versus left, Democrat versus Republican.

I'm not talking about Benghazi or Obamacare – I'm referring to our veterans; specifically, how we as a country are breaking promises we made them.

If you haven't heard, it turns out that we're failing to provide acceptable levels of care to our veterans through the government-run Veteran's Affairs (VA) health-care system. Whistleblowers in Arizona alerted the media to manipulation of data that hid the real waiting periods that vets were forced to endure before being allowed to see physicians. They alleged that vets were waiting so long that some died without being able to see a physician at all.

I don't think this is any single party or politician's fault (though I do weary of President Obama's handlers claiming that he first heard about various issues, many involving his own office, from the news). I don't even think this issue is new or unique. Vets have complained about VA care and waiting times for many years now, and the measures that were implemented to "help" – i.e., the electronic logging of appointment wait times – were unhelpful and simply encouraged officials to game the system and fudge the numbers to keep up appearances.

And I certainly don't claim to know how to fix the problem. But what I do know is that we owe these people more. They've risked life and limb in service to our country, to uphold our way of life, and in return we promised to take care of them. Our government is failing them in that regard, and that is an issue that deserves more than the shrill, inflated outrage of the minor scandals and political snafus that the media normally hypes.

I'll be watching my local legislators to see how they handle this in the months leading up to the November elections. I hope you all do the same.

Until next month,



Dave Fournier
Focus Section Editor
david@americanrecycler.com

AF&PA announces 2014 award winners

The American Forest & Paper Association (AF&PA) has announced the winners of its 2014 Recycling Awards.

Now in its ninth consecutive year, the AF&PA Recycling Awards recognize outstanding paper recycling programs in three categories: Business Leadership, Community and School. This year, the program was redesigned to reflect the diversity of paper recycling programs across the country. In each category, there are prizes for creativity, participation, partnerships and volume of paper collected.

The winners were selected by a panel of judges that included representatives from AF&PA company members, 2013 Recycling Award winner Bishop Watterson High School, Building Owners and Managers Association, Rhode Island Resource Recovery Corporation, Sustainable Packaging Coalition and the U.S. Environmental Protection Agency (EPA).

"More paper is recovered for recycling from municipal solid waste streams than any other com-

modity. That is, in part, thanks to the tremendous efforts of those celebrated by the AF&PA's Recycling Awards," said Mathy Stanislaus, EPA's assistant administrator for the Office of Solid Waste and Emergency Response.

This year's winners each receive a cash prize, an original piece of paper artwork and gain media recognition through the award presentation in their local market.

2014 AF&PA Recycling Award Winners

Creativity – unique and innovative ways that have been used to market the program, raise awareness and generate interest:

•Community Winner – Township of Nutley (Nutley, New Jersey).

•School Winner – Greenhill School (Addison, Texas).

•Business Winner – Michael Dunn Center (Kingston, Tennessee).

Participation – unique and innovative ways successful programs increased participation and tonnage collected:

•Community Winner – Vance Air Force Base (Enid, Oklahoma).

•School Winner – Damacus Elementary School (Salem, Ohio).

•Business – Michael Dunn Center (Kingston, Tennessee).

Partnership – innovative partnerships (community, business, non-profit organizations) used to promote increased recovery:

•Community Winner – Metro Waste Authority (Des Moines, Iowa).

•School Winner – Ocosta High School (Westport, Washington).

•Business Winner – Michael Dunn Center (Kingston, Tennessee)

Volume – total amount of paper and paperboard collected:

•Community Winner – Township of Nutley (Nutley, New Jersey).

•School Winner – Damascus Elementary School (Salem, Ohio).

•Business Winner – Curly's Foods, Inc. (Sioux City, Iowa).

For additional information,
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Cascades releases financial results Q1

Cascades Inc. a manufacturer of green packaging and tissue paper products, disclosed its unaudited financial results for the three month period ended March 31, 2014.

Mario Plourde, president and chief executive officer, commented, "Exceptionally harsh weather conditions in North America resulted in higher operating costs and lower shipments. Compared to the last quarter, these factors negatively impacted our first quarter results which represent, nevertheless,

an 18 percent EBITDA improvement compared to the same period last year.

"Sequentially, all our North American groups are showing lower results. The Containerboard Group suffered from a 14 day interruption of operations at its Trenton mill as a result of an equipment failure. The Specialty Products Group incurred higher energy and raw material costs. As for the Tissue Papers Group, it was also impacted by a more competitive market and a decrease in volumes in the away-from-home market and retail in Canada. On the positive side, results for the Boxboard Europe Group improved over the last quarter due to higher shipments and energy credits amounting to \$5 million during the first quarter. Finally, the productivity of the Greenpac mill continues to improve gradually and

produced to capacity for a few days in April."

Plourde added, "Despite the shortfall in the results for the first quarter, we are still confident in our ability to do better this year than we did in 2013. The recent decrease of recycled fibre costs confirms our views that input costs should remain reasonable. Aside from Europe where the competitive environment is expected to be challenging for recovered grades, our Packaging Products activities should continue to improve. In the tissue sector, we will face headwinds caused by additional capacity and lower demand from major retailers in the U.S.

"Finally, our debt to EBITDA ratio remained relatively stable during the quarter despite a weak Canadian dollar environment and seasonal working capital requirements and should continue to improve during the course of the year."

In comparison with the same period last year, sales increased by 4 percent to \$994 million as favorable exchange rates and higher average selling prices, particularly in the Containerboard Group, more than offset lower volumes for the Tissue Papers Group. Operating income, excluding specific items, increased from \$24 million in Q1 2013 to \$34 million in the first quarter of 2014.

Net earnings excluding specific items amounted to \$1 million (\$0.01 per share) in the first quarter of 2014 compared to a net loss of \$4 million (\$0.04 per share) for the same period in 2013. Including specific items, the net loss amounted to \$1 million (\$0.01 per share) in the first quarter of 2014 compared to a net loss of \$8 million (\$0.09 per share) in the same quarter in 2013.

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Ecologic gets boost from major pulp and paper company

Ecologic Brands, makers of recycled paper bottles and the eco.bottle® line, has completed the first close of a \$7 million round of financing. Investors include a strategic investment from Kruger Inc. and current angel investors, DBL Investors, Catamount Ventures and Black Bear Partners.

As part of the investment agreement, Kruger will become the exclusive licensee and manufacturer of Ecologic's paper bottle technology in Canada. Kruger's Consumer Products Division currently serves the U.S. and Canadian markets with numerous well-known tissue product brands, and the eco.bottle opens doors to other types of consumer-facing goods.

Kruger's strategic investment in Ecologic unlocks synergies between the two partners, the most obvious being Kruger's manufacturing, supply chain and paper technology with Ecologic's molded fiber technology. This will help scale Ecologic's current manufacturing capabilities rapidly, while tapping into over 100 years of Kruger's industry experience in pulp and paper products, containerboard and packaging, lumber, recycling and renewable energy.

Since commercializing its first paper bottle in 2011 with green cleaning company Seventh Generation Inc., Ecologic has manufactured and shipped millions of bottles to 15 brand partners around the world. Currently, 30 percent of Ecologic's business comes from the export of their eco.bottle, showing that the demand for sustainable packaging is a

global trend. Its customers also include Safeway and Bodylogix. The company is poised to scale its operations after building a manufacturing facility in Manteca, California last year and now forging a partnership with Kruger.

Ecologic is taking a leadership role in the emerging sustainable packaging market by building a profitable business around a closed loop, waste-to-recovery model, which converts local store waste into paper bottles and packaging. By simplifying and cutting cost out of their customers' supply chains, Ecologic is creating and on shoring important manufacturing jobs in Manteca, California.

Julie Corbett, founder of Ecologic, commented on the significance of this relationship. "By bringing the paper eco.bottle into markets that have been traditionally dominated by plastics, our partnership with Kruger will help us revolutionize the bottling business with one of the most renewable and recyclable resources – paper."

Most recently, Ecologic entered into a general supply agreement with Sonoma-based winery, Truett-Hurst Inc., to produce paper wine bottles for the PaperBoy brand. PaperBoy wine bottles are made from compressed, recycled corrugate formed into the shape of a standard Bordeaux wine bottle. These new paper wine bottles are 85 percent lighter than traditional glass bottles, and filled with appellation-based, super-premium wines.



Kureha America's Fred Daniell chairs new SPI board of directors; new officers elected

In serving the third largest U.S. manufacturing sector, SPI: The Plastics Industry Trade Association works to protect and promote nearly 900,000 plastics jobs spanning across every state. Each year, members of the SPI board of directors elect volunteer leaders from across the industry supply chain to lead both the organization and industry as a whole on a path of continued growth.

Leading the officers will be Kureha America Inc.'s president Fred Daniell. In his current role, Daniell is responsible for carbon fiber products and engineering plastics, among others. His expertise stems from a Bachelor of Science in mechanical engineering from the Georgia Institute of Technology and an Executive MBA from Duke University, as well as various professional roles at Celanese/Ticona, Dow and GE.

Daniell's advancement to the chairmanship comes with new priorities for the SPI Board, chiefly to provide guidance to its members on recent health care changes. Launched this spring SPI HealthLINK aims to be a solution to many of the plastics industry's questions and concerns about current health care options for their employees.

"While health care is a necessity in today's workforce, it's often seen by those who administer it as a step backward in what our members really want to be doing – advancing the plastics industry," Daniell said.

By creating a predictable cost structure and letting companies get back to the business they know and do best, this private exchange health care program is just one of the tools Daniell will have at his disposal to point SPI's members and the industry

in the right direction for future growth and sustainability.

SPI's new chairman will not be alone in this effort. In addition to the other newly elected officers and the immediate past chair, there are 24 industry experts comprising the board of directors, eight of whom are elected by SPI's industry councils. As SPI's president and CEO, Cardeaux is also a member of the board of directors, but may not vote in the group's deliberations.

New members to the board of directors include: Michael Gilbert, general manager at SABIC Innovative Plastics; Randy Herman, president Advanced Technology Group at Bemis Manufacturing Company; Allen Jacoby, general manager at Milliken & Company;

Daniel Mohs, CEO at Placon Corporation; and Jim Russler, vice president of Commercial Development at Bemis Manufacturing Company.

The newly elected officers are:

- Fred Daniell, Kureha America Inc., SPI chairman;
- James Murphy, David-Standard, LLC, SPI vice chair;
- Wylie Royce, Royce Associates, SPI treasurer;
- Tad McGwire, Industrial Heater Corp., SPI secretary;
- Jamie Clark, Printpack, Inc., officer-at-large;
- Phil Wilson, BASF, officer-at-large; and,
- Jay Cude, ITW Medical, immediate past chair.

Scouts help recover dated directories

The Berry Company collected nearly 50,000 lbs. of outdated telephone directories for recycling in Lincoln, Nebraska through the sixth-annual Think Yellow, Go Green program. The Cornhusker Council Boy Scouts, Lincoln Parks and Recreation Department and Recycling Enterprises of Nebraska, Inc. partnered with Berry on the month-long campaign, which encourages the local community to recycle their outdated directories.

The nearly 50,000 lbs. of outdated telephone directories, which were collected door-to-door by the Cornhusker Council Boy Scouts and dropped off by local residents at several parks and recreation centers in Lincoln, will be recycled and converted into reusable materials by Recycling Enterprises of Nebraska.

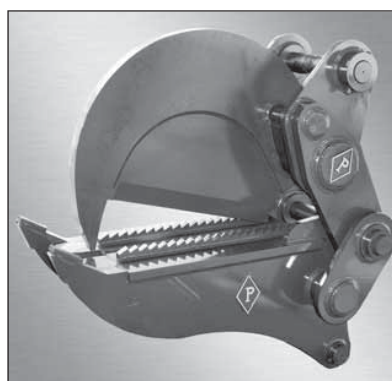
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EQUIPMENT SPOTLIGHT

Granulators

by MARY M. COX

maryc@americanrecycler.com

Reducing material size for more efficient handling is a common concern in the recycling industry. When plastic is the material involved, there are a wide range of products available to recyclers for processing it.

Cumberland offers products to reclaim material from the following: bulk reclamation of post-user industrial and consumer scrap, standard manufacturing or off-spec and malformed or bad product from manufacturing. The firm's granulators are for recycling, injection molding, extrusion, blow molding and all other polymer industry processes. Their beside-the-press product array ranges from small (6 x 8") units to large (16 x 40"). Mid-size units include the T500 series, available in 3 sizes, 5070 (20 x 28"), 5090 (20 x 36") and 50120 (20 x 48").

Their central-type granulator line is for large part, heavy construction, or high volume requirements. All products are available with sound suppression, are UL-compliant and meet or exceed every OSHA and international standard.

According to John Farney, national sales manager, "Market conditions are good, but indicators for the remainder of the year rely on continued advancement in the consumer goods and automotive areas. Building material markets show promise for the balance of 2014, and for the fourth year in a row, projections are good for general market growth. The demand for state-of-the-art products, high quality, minimal maintenance units, and highest possible productivity continue to drive product development.



Cumberland

"We strive to provide products that are useable with minimal setup time as stand-alone products. Integrated systems, of course, require assembly and integration, but standard products



Herbold Meckesheim USA

require minimal set-up time. We are celebrating Cumberland's 75th anniversary, and dedication to our industry, our clients and our environment continue to steer our efforts."

Herbold Meckesheim USA, a subsidiary of Herbold Meckesheim Germany, sells and installs durable, high-quality size-reduction equipment (granulators, shredders, grinders, pulverizers, etc.) and wash-line systems for recycling all kinds of industrial and post-consumer plastics. "Units are designed as modular 'building blocks' so that a system can be extended or modified according to the customer's requirements," said David Lefrancois, president.

Last fall, Herbold introduced five models of the HOS Heavy-Duty Pipe Shredder, which efficiently (up to approximately 3,400 lbs. per hour) reduces large (to 0.8' in diameter), thick-walled plastic pipes to chips of approximately 2.5 to 4 sq.in.

Lefrancois said, "Herbold's extensive line of granulators includes heavy-duty, general-use and compact machines. Popular HB and SB Series horizontal models employ a hydraulic ram or screw-feed mechanism, which makes them quieter and more efficient (30 to 50 percent higher throughput) than same-size gravity-fed cutting chambers. Suitable for dry or wet operation, these granulators are capable of processing up to eight tons of plastic per hour.

"The blade geometry of Herbold granulators, in combination with an open rotor, provides for cleaner cuts,

higher capacity, fewer fines and less noise. The knives can be removed easily and safely, and adjusted precisely in a fixture outside the unit. Our knives also last longer because their design provides 18 millimeters of regrind capacity, nearly twice that of most competing models."

Lafrancois explained that another benefit of Herbold horizontal granulators is a diagonally split housing that allows complete access to the cutting chamber for faster maintenance. Rotor bearings are positioned outside the cutting chamber, to keep grease from contaminating product.

He said the trend toward recycling and sustainability is still on the upswing, so "Herbold Meckesheim's future appears bright. Thanks to recent advances in automated separation equipment, more receivers of recycled plastics are separating the waste stream by material type, for sin-



Rotogran

gle-line recycling systems. This makes it easier for generators of plastic waste to recycle, and consequently makes it more likely that they will."

For over 30 years, Rotogran International has designed and manufactured size reduction equipment for recyclers and plastic processors. Mike Cyr, president, stated, "We are a true North American manufacturer of granulators, conveyors and evacuation systems, building everything in-house with spare parts readily available on our shelves. For the recycling industry, Rotogran produces

See SPOTLIGHT, Page 7

Manufacturer List

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CMG America, Inc.
Stephen Myers
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Cumberland
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Foremost Machine Builders, Inc.
Drew Schmid
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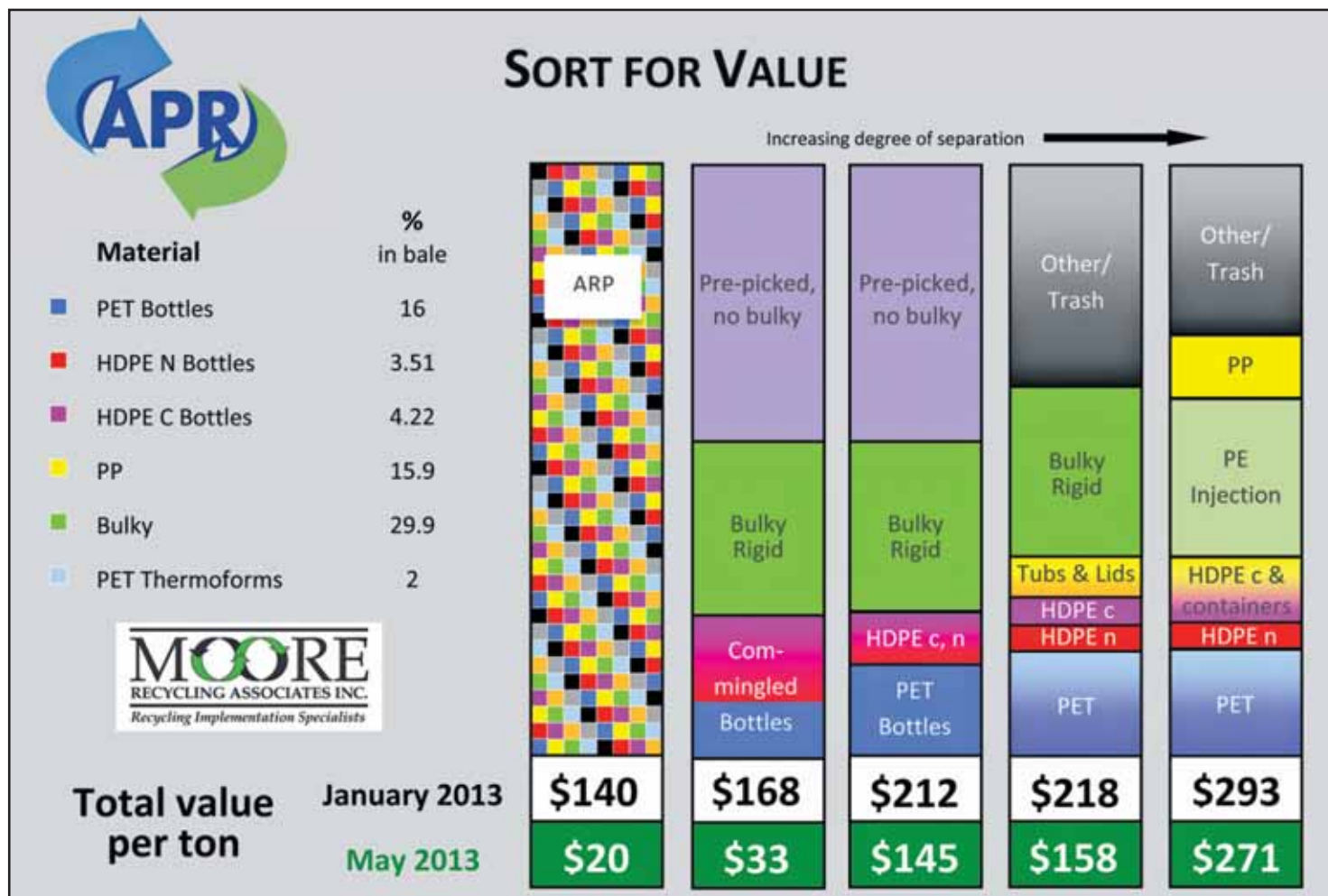
■Continued from Page 1

comes to the overall disposition of American-generated mixed plastic recyclables. "We are not seeing any mixed plastic going to China anymore," said Patty Moore, president and CEO of Moore Recycling Associates, Inc., a Sonoma, California, recycling consulting firm.

Green Fence has generally increased costs for companies that buy plastics for importation into China, because of the added expense of the extra sorting required to meet the Chinese standards. Some Hong Kong traders' companies are buying U.S. plastics and having them sorted in other Southeast Asian countries before sending them into China, according to Moore. The extra processing and shipping can significantly increase the costs for importing plastics to China, she said.

The extra costs on that end have caused prices paid to U.S. recyclable plastics suppliers to decline. The greatest drop in value has been in bales consisting of all rigid plastics unsorted by type. These fell up to 86 percent, from \$140 per ton to \$20 per ton, between January 2013 and May 2013, according to a study Moore did with the Association of Postconsumer Plastic Recyclers.

However, the effect of Green Fence grew less dramatic as plastic recyclables were better sorted. At the high end, the best-sorted bales lost only 8 percent of value, from \$293 to \$271 per ton, Moore's figures showed. Conners said that prices for the plastics he was exporting had fallen by one or two cents per pound.



One side effect of Green Fence has been that domestic buyers of recyclables have been able to enforce their own specifications about the sorting and cleanliness of plastic bales, Moore said. Another is that plastics recycling facilities devoted to recycling plastics only, have begun to appear, she said.

Conners said that these days his company is seeing fewer buyers for plastic destined for China, but from his perspective, they are superior customers

than the middlemen who formerly played a large role in the field. Selling to end users in China means dealing with more established firms who can also work with him to improve his product to meet their needs. "In some respects we've benefited by Green Fence," Conners said.

Today, it seems likely that the new standards for Chinese recyclable imports will remain, and that U.S. suppliers will meet them or find other markets. Moore

said many of those markets are likely to be domestic. She said it's possible, however, that traders will find ways to compensate for the costs of extra processing and transportation and make Chinese markets again serious competitors for domestic users.

Moore is optimistic about the appearance of plastics recycling facilities. Because they specialize in plastic, they are able to cost-effectively recycle

See GREEN FENCE, Page 6

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A Closer Look

by Donna Currie

Willimantic Waste Paper Co., Inc.

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Tom DeVivo is part of the third generation of the DeVivo family in the waste industry, and Tom's son, John, is the fourth generation working for the company.

It all started in 1937 when Tom's grandfather, Patrick DeVivo, founded Willimantic Waste Paper in Connecticut. He focused on recycling metal, rags and paper, as well as tires and glass.

Patrick passed the business on to his son James in 1970. Now James' wife, Mary Lou, is the company president, while Tom and his brother, Tim, are vice president and treasurer. The company operates with about 250 full time employees and another 15 to 20 part time college students who work during the summer.

Tom said that working in a family business has been interesting. When they were younger, both he and his brother occasionally quit their jobs – or their father fired them – but they always came back. Now, he said they all cross-train so they all know each other's jobs in case someone needs time off, but “we try not to step on each other's toes.”

“Tim and I moved the company more broadly into waste,” Tom said. Willi-Waste, as the company is familiarly known, is now a full service solid waste recycling facility that is constantly looking forward to see what new products are on the market that might be recyclable.

“Now it's laundry detergent bottles,” Tom said. In the future, he thinks mattresses might become more recyclable, if it becomes cost effective for the company through stewardship programs. According to Tom, while the recyclable materials in a mattress probably won't pay for the labor involved in recovering them, stewardship programs might make recycling them viable for Willimantic.

“We are trying very diligently to be on top of the next technology and product packaging, and be ready to recycle it.” Not that long ago, computer cards were desirable as a recyclable product, but as those disappeared, recyclers had to find other materials to take the place of those cards.

“We're always looking,” Tom said. He thinks that Willimantic may be able to recycle carpets in the future, but one problem is that not all carpet material is desirable. Nylon carpets could be recycled, but right now Tom isn't aware of any buyers for the recovered materials from polyester or blended carpets.

“If the cost is negative, you're better off looking at disposal,” he said. “It has to have at times a positive market.” There might be a charge to the consumer, as is the case for single-stream recycling, “but it has to have value to process.”

Willi-Waste used to run two dual-stream facilities, but that was recently combined into one single-stream facility. Tom explained that the dual-stream facilities were functioning as single-stream because the material sometimes became mixed in the trucks, and people weren't always careful about which material went into which bin.

“You have to make it easy for the consumer and for the business,” he said.

Another upside to converting to single stream is that the auto-load trucks used for picking up single-stream containers are much safer for the workers.

However, one problem with single-stream recycling is the quality of the incoming material, and he's been seeing a higher percentage of waste material being picked up with recyclables.

Willi-Waste specializes in working with residential customers and municipalities, servicing 75,000 homes, as well as small business. But the company also picks up C&D material – as much as 200 to 300 tons per day, 5 or 6 days per week. Tom noted that while C&D is very busy at this time of year, that business slows down considerably over the winter.

Tom said that the one thing he doesn't like about the business is when they lose a customer because that customer has gone out of business, “because you've lost them forever.” On the other hand, when a customer is lost to a competitor, “you can work on getting them back.”

One of the recent challenges was the change in the standards for fiber and plastic materials imposed by the Chinese government. Since China is a big player in the market, those changes caught recyclers off-guard since they had all been complying with established industry standards.

“We strive every day to make quality products,” Tom said, and they've adapted to the new standards. “If you make consistent products, people come and shop at your store.”

While he enjoys the business, Tom said that one of the best things about the job was that, “you meet a lot of interesting folks,” and that he gets “a lot of satisfaction that we are helping to create jobs in the environmental sector.”

And of course, he enjoys finding that next new thing in recycling. “Composting is right around the corner,” he said. “There are opportunities there.”

Machinery

■Continued from Page 1

million in Q4. This represented a one percent gain when compared with the robust total from Q3 of 2013. Precise year-ago comparisons for the auxiliary equipment data are not possible at the present time due to a significant change in the number of reporting companies for 2013. It can be reasonably concluded that the four year uptrend in this data continued, and the quarterly and annual totals for 2013 represent a solid gain when compared with the comparable totals from 2012.

The gain in the CES data on plastics machinery shipments compares favorably to the increases in the two major data series compiled by the US government that measure activity levels in the industrial machinery sector. According to the Bureau of Economic Analysis, business investment in industrial equipment rose by three percent (seasonally-adjusted, annualized rate) in Q4 when compared with Q4 of 2012. The other important machinery market indicator, compiled by the Census Bureau, showed that the total value of shipments of industrial machinery escalated 25 percent in Q4.

“When it is combined with the data reported by the federal government, the CES data indicates that the recovery in the plastics machinery sector was gaining momentum at the end of last year,”

according to Bill Wood, the plastics market economist who analyzes and reports on this market sector for the CES. “These strong gains notwithstanding, the trends indicate that the manufacturing sector is poised for further growth in the coming quarters. Harsh winter weather constrained the recovery at the beginning of 2014, but accelerating economic growth will return in the springtime. This will generate further gains in the plastics machinery data,” said Wood.

The CES also conducts a quarterly survey of plastics machinery suppliers that asks about present market conditions and expectations for the future. The responses from the Q4 survey were little changed from the Q3 survey, and they reveal an upbeat attitude that is broad-based across the industry. When asked about expectations for future market conditions, 87 percent of the respondents expect conditions to stay the same or even improve in the coming quarter, and 95 percent expect them to hold steady or get better during the next 12 months.

North America and Mexico are still the regions where the strongest gains are expected, but expectations slipped a bit for Europe and Latin America. As for the major end-markets, the respondents expect that automotive, medical, and packaging will continue to be the strongest in terms of demand for plastics products and equipment. Expectations for the appliance and construction sectors were significantly improved.

Green Fence

■Continued from Page 5

more kinds of plastic, she said. One problem holding back their further development, according to her, is that most recycled plastics are sold on spot markets where prices fluctuate. That makes it difficult for plastics recycling facilities developers to attract investments to build more of these facilities, she said.

“The infrastructure is not nearly built out as much as it should be,

but it's growing very rapidly,” Moore said. “It's a great opportunity to keep the value of that material here in the U.S.”

Conners said one end result of Green Fence is to emphasize the importance of providing clean, well-sorted and accurately labeled recyclable materials. “I think it's very important that recycling companies not ship wastes across borders,” he said. “The bad acts of a few make business more difficult for everybody. We need to produce excellent quality products.”

A fisherman returned to shore with a giant marlin that was bigger and heavier than he. On the way to the cleaning shed, he ran into a second fisherman who had a stringer with a dozen baby minnows. The second fisherman looked at the marlin, turned to the first fisherman and said, “Only caught one, eh?”

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OSHA fines New Wave Plastics

New Wave Plastics has been cited for 13 safety violations after the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) found a lack of training and personal protective equipment at the Cleveland facility, a recycler and plastic products supplier. After receiving a complaint in November 2013, OSHA initiated an inspection of the facility. Proposed penalties total \$51,800.

"Employers have a responsibility to train workers about hazards found in their facilities and to take precautions to prevent injuries and illnesses," said Howard Eberts, OSHA's area director in Cleveland. "Employers must ensure workers are protected from hazards and that they receive the required safety training."

Twelve serious violations involve failing to train workers about wearing personal protective equipment; hazards associated with the use of chemicals in the work environment; forklift safety and fire extinguishers; and failure to pro-

vide fire-retardant clothing. New Wave Plastics was also cited for failing to develop a hearing conservation program, create a hazard workplace assessment and develop a hazard communication program. The presence of combustible dust was also found.

An OSHA violation is serious if death or serious physical harm could result from a hazard an employer knew or should have known exists.

One other-than-serious violation was cited for not providing required information to workers on OSHA's respiratory standards. An other-than-serious violation is one that has a direct relationship to job safety and health, but probably would not cause death or serious physical harm.

New Wave Plastics has 15 business days from receipt of its citations and penalties to comply, request an informal conference with OSHA's area director or contest the findings before the independent Occupational Safety and Health Review Commission.

Sonoco's Ohio rigid plastics facility achieves LEED Silver

Sonoco, a global packaging company, revealed that its New Albany, Ohio, rigid plastics facility has achieved Leadership in Energy and Environmental Design (LEED) Silver Certification from the U.S. Green Building Council. The \$15 million, 142,230 sq.ft. plant produces PET bottles for personal care products, as well as plastic components for wall air fresheners. The facility has been operational since October 2012.

LEED Certification is comprised of four levels, based on points earned: Certified (40 to 49 points); Silver (50 to 59 points); Gold (60 to 79 points); and Plat-

inum (80 plus points). Projects may earn points for a variety of different efforts under one of five rating categories.

Sonoco Plastics is a manufacturer of mono-layer and multi-layer blow-molded bottles and jars, thermoformed cups and trays and engineered molded and extruded containers, spools and trays. Sonoco has 25 plastics operations in the U.S., Canada, Mexico, Ireland, Netherlands and Germany. In addition to the Beauty Park facility, Sonoco Plastics operates a state-of-the-art food-grade, blow-molding and injection molding plant in Columbus, Ohio.

Cyr also said that Rotogran recognizes and acknowledges a new trend in the recycling industry toward sophistication, process improvement and expansion, combined with upgraded safety measures and protection of invested equipment.

"Some of these trends appear in the form of more advanced, high end metal detectors to produce products with zero metal contamination and increased resale value. These advanced metal detectors are used between pre-shredding equipment and granulation equipment to improve granulator performance, reduce maintenance intervals, maximize blade life and improve overall profit by producing the cleanest, highest quality regrind possible. These equipment combinations are often integrated into systems with advanced control panels. These controls adjust the system on the fly for maximum production and to maintain the highest level of safety for the operators and support personnel around them," he noted.

Cyr believes that today's recyclers are at the top of their game and expanding into further processing capacities "and Rotogran is with them every step of the way," he concluded.

AF&PA releases paper reports

The American Forest & Paper Association released its March U.S. paper reports.

Containerboard

Containerboard production increased 8.7 percent from February and was 3.8 percent higher compared to the same month last year. The month-over-month average daily production decreased 1.8 percent. Shipments for March were 2,958.2 thousand tons, representing 166.2 billion of square feet. The containerboard operating rate for March decreased 1.7 points from February, from 96.3 percent to 94.6 percent.

Boxboard

Total boxboard production increased 1.8 percent when compared to March 2013 and increased 9.3 percent from February. Unbleached kraft boxboard production increased over the same month last year and increased compared to February.

Total solid bleached boxboard and liner production increased compared to March 2013 and increased compared to February. The production of recycled boxboard stayed flat compared to March 2013 but increased when compared to February.

Kraft Paper

Total kraft paper shipments were 123.4 thousand tons, 1.5 percent higher compared to the prior month. Bleached kraft paper shipments were 17.3 percent higher than February, while unbleached

kraft paper shipments were essentially flat. Overall, shipments for the first three months of 2014 were 5.3 percent lower than the same period last year. Total month-end inventories were also essentially flat compared to February.

Printing-Writing Paper Report

According to the report, total printing-writing paper shipments decreased 2 percent in March compared to March 2013, with increases in year-over-year shipments in uncoated mechanical and coated freesheet grades.

•Uncoated free sheet paper shipments in March decreased 6 percent compared to March 2013. Year-to-date shipments are down 7 percent in 2014.

•March coated free sheet paper shipments increased 4 percent, the first year-over-year increase in eight months. Year-to-date shipments of coated freesheet grades are essentially flat compared to 2013.

•Uncoated mechanical paper shipments also increased 4 percent in March, the sixth year-over-year increase in the past seven months. Year-to-date shipments of uncoated mechanical paper are up 2 percent compared to 2013.

•Coated mechanical (CM) shipments in March decreased 4 percent compared to March 2013 to 237,000 tons. Imports of CM through February were down 9 percent relative to the same period in 2013.

Spotlight

■Continued from Page 4

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